

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product code 002213
Product name BreathTek™ CO₂ Trapping Cartridge

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Details of the supplier of the safety data sheet

Manufacturer
 Otsuka Electronics co, LTD.
 3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
 Phone: +81-72-855-8550

U.S. Distributor:
 Meridian Bioscience, Inc.
 3471 River Hills Drive
 Cincinnati, Ohio 45244
 (800) 343-3858

For further information, please contact:

E-mail Address www.meridianbioscience.com

1.4 Emergency telephone number

Emergency telephone Emergency telephone CHEMTREC (International) 1-703-527-3887 / For US 1-800-424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 B

2.2 Label elements



Signal word

Danger

Hazard statements

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P321 - Specific treatment (see supplemental first aid instructions on this label)

P330 - Rinse mouth

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Other information**SECTION 3: Composition/information on ingredients****3.1 Substances****3.2 Mixtures**

Chemical Name	EC-No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Lithium Hydroxide	Present	1310-65-2	60 - 100	No data available	no data available

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1 Description of first-aid measures****General advice**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Eye contact

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Skin contact

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Ingestion	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Inhalation	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media

Water spray, Carbon dioxide (CO₂), Foam, Dry chemical.

Extinguishing media which shall not be used for safety reasons

No additional information available.

5.2 Special hazards arising from the substance or mixture

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Advice for firefighters

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Advice for emergency responders

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Methods for Containment

Avoid dust formation. Contain and collect as any solid.

Methods for cleaning up

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Specific end uses

Other Guidelines

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits

OELs have not been fully established

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering Measures

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection	Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.
Hand Protection	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Skin and body protection Respiratory protection	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Other Protective Equipment	Gloves. Wear chemical goggles and face shield combination. Protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls	No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid	Odor	Odorless
Appearance	granular crystal	Odor threshold	No data available
Color	white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No data available
Melting point / freezing point		No data available
Boiling point/boiling range	470 °C	No information available
Flash Point	924 °C	No information available
Evaporation rate		No data available
Flammability (solid, gas)		No data available
Flammability Limit in Air		No data available
Upper flammability limit:		
Lower flammability limit:		
Vapor pressure		No data available
Vapor density		No data available
Specific Gravity		No data available
Water solubility	10% @ 25°C	
Solubility(ies)		No data available
Partition coefficient		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Explosive properties	No data available	
Oxidizing Properties	No data available	

9.2 Other information

Softening point	No information available
Molecular weight	No information available
VOC Content(%)	No data available
Liquid Density	14 (1.0 N Solution)
Bulk density	No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Possibility of hazardous reactions

Hazardous Reactions

None known.

10.4 Conditions to Avoid

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Incompatible Materials

Strong oxidizing agents. Strong acids. Aluminum. Tin. Zinc.

10.6 Hazardous decomposition products

Hydrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes serious eye damage.
Skin contact	Causes severe skin burns.
Ingestion	Harmful if swallowed.
Acute toxicity	Oral: Harmful if swallowed.

Inhalation

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Skin corrosion/irritation	Causes severe skin burns.
Eye damage/irritation	Causes serious eye damage.
Sensitization	Not classified.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ systemic toxicity (single exposure)	Not classified.
Specific target organ systemic toxicity (repeated exposure)	Not classified.

Aspiration hazard Not classified.

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicity effects Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistence and degradability

No additional information available.

12.3 Bioaccumulative potential

No additional information available.

12.4 Mobility in soil

Mobility

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects.

No additional information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Contaminated packaging Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

IATA

14.1. UN/ID No	UN2860
14.2. Technical Name	Lithium hydroxide
14.3. Transport hazard class(es)	8
14.4. Packing Group	II
Description	Medium Danger
14.5. ERG Code	154
14.6.	

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

TSCA	Complies
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical Safety Report

No information available

SECTION 16: Other information

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage

Issuing Date	16-Mar-2022
Revision Date	16-Mar-2022
Revision Note	Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

SEZIONE 1: identificazione della sostanza/miscela e della società/impresa**1.1 Identificatore del prodotto**

Codice del prodotto 002213
Nome del prodotto BreathTek™ CO₂ Trapping Cartridge

1.2 Usi pertinenti identificati della sostanza o miscela e usi sconsigliati

Usò Raccomandato 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Informazioni sul fornitore della scheda di dati di sicurezza**Fabbricante**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Per ulteriori informazioni, contattare:

Indirizzo e-mail www.meridianbioscience.com

1.4 Numero telefonico di emergenza

Numero telefonico di chiamata urgente Telefono di emergenza CHEMTREC (Internazionale) 1-703-527-3887 / Per gli Stati Uniti 1-800-424-9300

SEZIONE 2: identificazione dei pericoli**2.1 Classificazione della sostanza o della miscela****Regolamento (CE) n. 1272/2008**

Tossicità acuta - per via orale	Categoria 4
Corrosione/irritazione della pelle	Categoria 1 B

2.2 Elementi dell'etichetta

Segnalazione

Pericolo

Indicazioni di pericolo

H302 - Nocivo se ingerito

H314 - Provoca gravi ustioni cutanee e gravi lesioni oculari

Consigli di Prudenza - UE (§28, 1272/2008)

P260 - Non respirare la polvere

P264 - Lavare accuratamente viso, mani ed eventuale superficie cutanea esposta dopo l'uso

P270 - Non mangiare, né bere, né fumare durante l'uso

P280 - Indossare guanti/ indumenti protettivi/ Proteggere gli occhi/ il viso.

P301 + P312 - IN CASO DI INGESTIONE accompagnata da malessere: contattare un CENTRO ANTIVELENI o un medico

P301 + P330 + P331 - IN CASO DI INGESTIONE: sciacquare la bocca. NON provocare il vomito

P302 + P352 - IN CASO DI CONTATTO CON LA PELLE: lavare abbondantemente con acqua e sapone

P303 + P361 + P353 - IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle/ fare una doccia.

P304 + P340 - IN CASO DI INALAZIONE: trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione

P305 + P351 + P338 - IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare

P310 - Contattare immediatamente un CENTRO ANTIVELENI o un medico

P321 - Trattamento specifico (vedere le istruzioni supplementari per il primo soccorso su questa etichetta)

P330 - Sciacquare la bocca

P363 - Lavare gli indumenti contaminati prima di indossarli nuovamente

P405 - Conservare sotto chiave

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Altre informazioni**SEZIONE 3: composizione/informazioni sugli ingredienti****3.1 Sostanze****3.2 Miscele**

Denominazione chimica	N. CE	N. CAS	Peso-%	Classificazione secondo il regolamento (CE) n. 1272/2008 [CLP]	Numero di registrazione REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	Nessun informazioni disponibili	nessun dato disponibile

Per quanto riguarda il testo completo delle dichiarazioni-H menzionate in questo paragrafo, consultare il paragrafo 16

SEZIONE 4: misure di primo soccorso**4.1 Descrizione delle misure di pronto soccorso****Avvertenza generica**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Contatto con gli occhi

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Contatto con la pelle

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Ingestione	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Inalazione	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Principali sintomi ed effetti, sia acuti e che ritardati

Principali sintomi	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Indicazione della eventuale necessità di consultare immediatamente un medico e di trattamenti speciali

Note per i medici	Trattare sintomaticamente.
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SEZIONE 5: misure antincendio

5.1 Mezzi di estinzione

Mezzi di Estinzione Idonei

Acqua nebulizzata, Anidride carbonica (CO₂), Schiuma, Prodotto chimico secco.

Mezzi di estinzione da non utilizzare per ragioni di sicurezza

No additional information available.

5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Raccomandazioni per gli addetti all'estinzione degli incendi

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Do not dispose of fire-fighting water in the environment.
Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.
Other information: On contact with water, LiOH generates considerable heat.

SEZIONE 6: misure in caso di rilascio accidentale

6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza

Evacuare la zona. Aerare la zona. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Per chi interviene in caso di emergenze

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Precauzioni ambientali

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Metodi e materiali per il contenimento e per la bonifica**Metodi di Contenimento**

Evitare la formazione di polvere. Contain and collect as any solid.

Metodi di bonifica

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Riferimenti ad altre sezioni

See Sections 8 and 13.

SEZIONE 7: manipolazione e immagazzinamento**7.1 Precauzioni per la manipolazione sicura****Precauzioni per la manipolazione sicura**

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Condizioni per l'immagazzinamento sicuro, comprese eventuali incompatibilità**Misure tecniche/Modalità d'immagazzinaggio**

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Usi finali particolari**Altre linee guida**

Nessuna informazione disponibile.

SEZIONE 8: controllo dell'esposizione/protezione individuale**8.1 Parametri di controllo****Limiti di esposizione**

OELs have not been fully established

Denominazione chimica	Unione Europea	Il Regno Unito	Francia	Spagna	Germania
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Denominazione chimica	Austria	Svizzera	Polonia	Norvegia	Irlanda
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Livello Derivato Senza Effetto (DNEL)

Nessuna informazione disponibile

Predicted No Effect Concentration (PNEC, Concentrazione Prevedibile Priva di Effetti)

Nessuna informazione disponibile

8.2 Controlli dell'esposizione**Controlli tecnici**

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials.

Ensure adequate ventilation, especially in confined areas.

Dispositivi di protezione individuale

Protezione degli occhi

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Protezione delle mani

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Protezione pelle e corpo Protezione respiratoria

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Altri dispositivi di protezione

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Misure di igiene

Maneggiare nel rispetto delle buone norme igieniche e di sicurezza industriali.

Controlli dell'esposizione ambientale

Nessuna informazione disponibile.

SEZIONE 9: proprietà fisiche e chimiche

9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali

Stato fisico	Stato Solido	Odore	Inodore
Aspetto	granular crystal	Soglia olfattiva	Nessun informazioni disponibili
Colore	bianco		

Proprietà

Valori

Note • Metodo

pH		Nessun informazioni disponibili
Punto di fusione / punto di congelamento		Nessun informazioni disponibili
Punto/intervallo di ebollizione	470 °C	Nessuna informazione disponibile
Punto di Infiammabilità	924 °C	Nessuna informazione disponibile
Tasso di evaporazione		Nessun informazioni disponibili
Infiammabilità (solidi, gas)		Nessun informazioni disponibili
Limite di infiammabilità in aria		Nessun informazioni disponibili
Limite di infiammabilità superiore:		
Limite di infiammabilità inferiore		
Tensione di vapore		Nessun informazioni disponibili
Densità di vapore		Nessun informazioni disponibili
Peso specifico		Nessun informazioni disponibili
Idrosolubilità	10% @ 25°C	
La solubilità/le solubilità		Nessun informazioni disponibili
Coefficiente di ripartizione		Nessun informazioni disponibili
Temperatura di autoaccensione		Nessun informazioni disponibili
Temperatura di decomposizione		Nessun informazioni disponibili
Viscosità cinematica		Nessun informazioni disponibili
Viscosità dinamica		
Proprietà esplosive	Nessun informazioni disponibili	
Proprietà ossidanti	Nessun informazioni disponibili	

9.2 Altre informazioni

Punto di rammollimento	Nessuna informazione disponibile
Peso molecolare	Nessun informazioni disponibili
Tenore di VOC (composti organici volatili)	Nessun informazioni disponibili
Densità del liquido	14 (1.0 N Solution)
Peso specifico apparente	Nessuna informazione disponibile

SEZIONE 10: stabilità e reattività

10.1 Reattività

Non si conosce nessuna reazione pericolosa se usato in condizioni normali.

10.2 Stabilità chimica

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Possibilità di reazioni pericolose

Reazioni pericolose

Nessuno noto.

10.4 Condizioni da Evitare

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Materiali Incompatibili

Agenti ossidanti forti. Acidi forti. Alluminio. Tin. Zinc.

10.6 Prodotti di decomposizione pericolosi

Hydrogen.

SEZIONE 11: informazioni tossicologiche

11.1 Informazioni sugli effetti tossicologici

Tossicità acuta

Informazioni sul prodotto

Inalazione Può causare irritazione dell'apparato respiratorio.

Contatto con gli occhi Provoca gravi lesioni oculari.

Contatto con la pelle Causes severe skin burns.

Ingestione Nocivo se ingerito.

Tossicità acuta Oral: Harmful if swallowed.

Inalazione

Denominazione chimica	LD50 orale	LD50 dermico	LC50 inalazione
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Corrosione/irritazione della pelle Causes severe skin burns.

Danno agli occhi/irritazione Provoca gravi lesioni oculari.

Sensibilizzazione Non classificato.

Mutagenicità sulle cellule germinali Non classificato.

Cancerogenicità Non classificato.

Tossicità per la riproduzione	Non classificato.
Tossicità specifica per organi bersaglio - esposizione singola	Non classificato.
Tossicità specifica per organi bersaglio - esposizione ripetuta	Non classificato.
Pericolo in caso di aspirazione	Non classificato.

SEZIONE 12: informazioni ecologiche

12.1 Tossicità

Effetti di ecotossicità Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Denominazione chimica	Piante acquatiche/alghe	Pesci	Crostacei
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistenza e degradabilità

No additional information available.

12.3 Potenziale di bioaccumulo

No additional information available.

12.4 Mobilità nel suolo

Mobilità

No additional information available.

12.5 Risultati della valutazione PBT e vPvB

No additional information available.

12.6 Altri effetti avversi.

No additional information available

SEZIONE 13: considerazioni sullo smaltimento

13.1 Metodi di trattamento dei rifiuti

Rifiuti dagli scarti / prodotti inutilizzati Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Imballaggio contaminato Dispose in a safe manner in accordance with local/national regulations.

SEZIONE 14: informazioni sul trasporto

IATA

14.1. N. ID/ONU

UN2860

14.2. Denominazione tecnica	Lithium hydroxide
14.3. Classi di pericolo connesso al trasporto	
14.4. Gruppo d'imballaggio	II
Descrizione	Medium Danger
14.5. Codice ERG	154
14.6.	

SEZIONE 15: informazioni sulla regolamentazione

15.1 Norme e legislazione su salute, sicurezza e ambiente specifiche per la sostanza o la miscela

Inventari Internazionali

TSCA	Conforme
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legenda

TSCA - Sezione 8(b) United States Toxic Substances Control Act (Decreto Statunitense per il Controllo delle Sostanze Tossiche), Inventario

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances (Inventario europeo delle sostanze chimiche esistenti a carattere commerciale /Lista europea delle sostanze chimiche notificate)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List (Lista delle Sostanze non Nazionali/delle Sostanze Nazionali Canadesi)

PICCS - Philippines Inventory of Chemicals and Chemical Substances (Inventario delle Sostanze Chimiche delle Filippine)

ENCS - Japan Existing and New Chemical Substances (Sostanze Chimiche Nuove ed Esistenti in Giappone)

IECSC - China Inventory of Existing Chemical Substances (Inventario Cinese delle Sostanze Chimiche Esistenti)

AICS - Inventario Australiano delle Sostanze Chimiche (Australian Inventory of Chemical Substances)

KECL - Korean Existing and Evaluated Chemical Substances (Sostanze Chimiche Esistenti e Valutate in Corea)

15.2 Relazione sulla Sicurezza Chimica

Nessuna informazione disponibile

SEZIONE 16: altre informazioni

H302 - Nocivo se ingerito

H314 - Provoca gravi ustioni cutanee e gravi lesioni oculari

Data del Rilascio 16-mar-2022

Data di revisione 16-mar-2022

Nota di revisione Non applicabile.

La scheda di dati di sicurezza dei materiali è conforme ai requisiti della Normativa (CE) n. 1907/2006

Dichiarazione di non responsabilità

Le informazioni sopra riportate sono ritenute corrette ma non pretendono di essere esaustive e per tale ragione devono essere intese come guida. Meridian Bioscience Inc non potrà essere ritenuta responsabile per qualsiasi danno risultante dalla manipolazione o dal contatto con il prodotto di cui sopra.

RUBRIQUE 1 : Identification de la substance/du mélange et de la société/l'entreprise**1.1 Identificateur de produit**

Code produit 002213
Nom du produit BreathTek™ CO₂ Trapping Cartridge

1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées

Utilisation recommandée 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**Fabricant**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Pour plus d'informations, contacter :

Adresse e-mail www.meridianbioscience.com

1.4 Numéro d'appel d'urgence

Numéro d'appel d'urgence Téléphone d'urgence CHEMTREC (International) 1-703-527-3887 /1-800-424-9300 Pour américain

RUBRIQUE 2 : Identification des dangers**2.1 Classification de la substance ou du mélange****Règlement (CE) n° 1272/2008**

Toxicité aiguë - Voie orale	Catégorie 4
Corrosion/irritation cutanée	Catégorie 1 B

2.2 Éléments d'étiquetage

Mention d'avertissement

Danger

Mentions de danger

H302 - Nocif en cas d'ingestion

H314 - Provoque des brûlures de la peau et de graves lésions des yeux

Conseils de prudence - UE (par 28, 1272/2008)

P260 - Ne pas respirer les poussières

P264 - Se laver le visage, les mains et toute surface de peau exposée soigneusement après manipulation

P270 - Ne pas manger, boire ou fumer en manipulant ce produit

P280 - Porter des gants de protection/ des vêtements de protection/ un équipement de protection des yeux/ du visage.

P301 + P312 - EN CAS D'INGESTION: appeler un CENTRE ANTIPOISON ou un médecin en cas de malaise

P301 + P330 + P331 - EN CAS D'INGESTION : Rincer la bouche. NE PAS faire vomir

P302 + P352 - EN CAS DE CONTACT AVEC LA PEAU: laver abondamment à l'eau et au savon

P303 + P361 + P353 - EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): enlever immédiatement les vêtements contaminés. Rincer la peau à l'eau/ se doucher.

P304 + P340 - EN CAS D'INHALATION: transporter la victime à l'extérieur et la maintenir au repos dans une position où elle peut confortablement respirer

P305 + P351 + P338 - EN CAS DE CONTACT AVEC LES YEUX : Rincer avec précaution à l'eau pendant plusieurs minutes.

Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer

P310 - Appeler immédiatement un CENTRE ANTIPOISON ou un médecin

P321 - Traitement spécifique (voir les instructions complémentaires de premier secours sur cette étiquette)

P330 - Rincer la bouche

P363 - Laver les vêtements contaminés avant réutilisation

P405 - Garder sous clef

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Autres informations**RUBRIQUE 3 : Composition/informations sur les composants****3.1 Substances****3.2 Mélanges**

Nom chimique	No.-CE	Numéro CAS	% massique	Classification selon le règlement (CE) n° 1272/2008 [CLP]	Numéro d'enregistrement REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	Aucune donnée disponible	aucune donnée disponible

Pour le texte complet des Phrases-H mentionnées dans ce chapitre, voir section 16**RUBRIQUE 4 : Premiers secours****4.1 Description des premiers secours****Conseils généraux**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Contact oculaire

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Contact avec la peau

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Ingestion	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Inhalation	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Principaux symptômes et effets, aigus et différés

Symptômes principaux	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

Notes au médecin	Traiter les symptômes.
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RUBRIQUE 5 : Mesures de lutte contre l'incendie

5.1 Moyens d'extinction

Moyens d'extinction appropriés

Jet d'eau, Dioxyde de carbone (CO₂), Mousse, Agent chimique sec.

Moyen d'extinction à ne pas utiliser pour des raisons de sécurité

No additional information available.

5.2 Dangers particuliers résultant de la substance ou du mélange

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Conseils aux pompiers

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

RUBRIQUE 6 : Mesures à prendre en cas de dispersion accidentelle

6.1 Précautions individuelles, équipement de protection et procédures d'urgence

Évacuer la zone. Ventiler la zone. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Conseils à destination des secouristes

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Précautions pour la protection de l'environnement

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Méthodes et matériel de confinement et de nettoyage**Méthodes de confinement**

Éviter la formation de poussières. Contain and collect as any solid.

Méthodes de nettoyage

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Référence à d'autres sections

See Sections 8 and 13.

RUBRIQUE 7 : Manipulation et stockage**7.1 Précautions à prendre pour une manipulation sans danger****Conseils relatifs à la manipulation sans danger**

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**Mesures techniques/Conditions de stockage**

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Utilisation(s) finale(s) particulière(s)**Autres recommandations**

Aucune information disponible.

RUBRIQUE 8 : Contrôles de l'exposition/protection individuelle**8.1 Paramètres de contrôle****Limites d'exposition**

OELs have not been fully established

Nom chimique	Union européenne	Royaume Uni	France	Espagne	Allemagne
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Nom chimique	Autriche	Suisse	Pologne	Norvège	Irlande
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Niveau dérivé sans effet (DNEL) Aucune information disponible

Concentration prévisible sans effet (PNEC) Aucune information disponible

8.2 Contrôles de l'exposition**Mesures techniques**

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Équipement de protection individuelle

Protection des yeux	Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.
Protection des mains	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Protection de la peau et du corps	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
Protection respiratoire	Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Autres équipements de protection	Goggles. Wear chemical goggles and face shield combination. Protective clothing.
Mesures d'hygiène	Manipuler conformément aux bonnes pratiques industrielles d'hygiène et de sécurité.
Contrôles d'exposition liés à la protection de l'environnement	Aucune information disponible.

RUBRIQUE 9 : Propriétés physiques et chimiques**9.1 Informations sur les propriétés physiques et chimiques essentielles**

État physique	Solide	Odeur	Inodore
Aspect	granular crystal	Seuil olfactif	Aucune donnée disponible
Couleur	blanche		

<u>Propriété</u>	<u>Valeurs</u>	<u>Remarques • Méthode</u>
pH		Aucune donnée disponible
Point de fusion / point de congélation		Aucune donnée disponible
Point/intervalle d'ébullition	470 °C	Aucune information disponible
Point d'éclair	924 °C	Aucune information disponible
Taux d'évaporation		Aucune donnée disponible
Inflammabilité (solide, gaz)		Aucune donnée disponible
Limites d'inflammabilité dans l'air		Aucune donnée disponible
Limite supérieure d'inflammabilité:		
Limite inférieure d'inflammabilité		
Pression de vapeur		Aucune donnée disponible
Densité de vapeur		Aucune donnée disponible
Densité		Aucune donnée disponible
Hydrosolubilité	10% @ 25°C	
Solubilité(s)		Aucune donnée disponible
Coefficient de partage		Aucune donnée disponible
Température d'auto-inflammabilité		Aucune donnée disponible
Température de décomposition		Aucune donnée disponible
Viscosité cinématique		Aucune donnée disponible
Viscosité dynamique		Aucune donnée disponible
Propriétés explosives	Aucune donnée disponible	
Propriétés comburantes	Aucune donnée disponible	

9.2 Autres informations

Point de ramollissement	Aucune information disponible
Masse molaire	Aucune information disponible
Teneur (%) en COV (composés organiques volatils)	Aucune donnée disponible
Densité de liquide	14 (1.0 N Solution)

Masse volumique apparente Aucune information disponible

RUBRIQUE 10 : Stabilité et réactivité

10.1 Réactivité

Pas de réactions dangereuses connues dans les conditions normales d'utilisation.

10.2 Stabilité chimique

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Possibilité de réactions dangereuses

Réactions dangereuses

Aucun(e) connu(e).

10.4 Conditions à éviter

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Matières incompatibles

Agents comburants forts. Acides forts. Aluminium. Tin. Zinc.

10.6 Produits de décomposition dangereux

Hydrogen.

RUBRIQUE 11 : Informations toxicologiques

11.1 Informations sur les effets toxicologiques

Toxicité aiguë

Informations sur le produit

Inhalation	Peut provoquer une irritation des voies respiratoires.
Contact oculaire	Provoque de graves lésions des yeux.
Contact avec la peau	Causes severe skin burns.
Ingestion	Nocif en cas d'ingestion.
Toxicité aiguë	Oral: Harmful if swallowed.

Inhalation

Nom chimique	DL50 par voie orale	DL50, voie cutanée	CL50 par inhalation
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Corrosion/irritation cutanée Causes severe skin burns.

Domage/irritation de l'œil Provoque de graves lésions des yeux.

Sensibilisation Non classé.

Mutagénicité sur les cellules germinales Non classé.

Cancérogénicité	Non classé.
Toxicité pour la reproduction	Non classé.
Toxicité spécifique pour certains organes cibles - exposition unique	Non classé.
Toxicité spécifique pour certains organes cibles - exposition répétée	Non classé.
Danger par aspiration	Non classé.

RUBRIQUE 12 : Informations écologiques

12.1 Toxicité

Effets d'écotoxicité Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Nom chimique	Algues/végétaux aquatiques	Poisson	Crustacés
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistance et dégradabilité

No additional information available.

12.3 Potentiel de bioaccumulation

No additional information available.

12.4 Mobilité dans le sol

Mobilité

No additional information available.

12.5 Résultats des évaluations PBT et vPvB

No additional information available.

12.6 Autres effets néfastes.

No additional information available

RUBRIQUE 13 : Considérations relatives à l'élimination

13.1 Méthodes de traitement des déchets

Déchets de résidus / produits non utilisés Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Emballages contaminés Dispose in a safe manner in accordance with local/national regulations.

RUBRIQUE 14 : Informations relatives au transport

IATA

14.1. ONU/n° d'identification	UN2860
14.2. Nom technique	Lithium hydroxide
14.3. Classe(s) de danger pour le transport	8
14.4. Groupe d'emballage	II
Description	Medium Danger
14.5. Code ERG	154
14.6.	

RUBRIQUE 15 : Informations relatives à la réglementation

15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement

Inventaires internationaux

TSCA	Est conforme
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS (Australie)	-
KECL	-

Légende

TSCA - Loi des États-Unis sur le contrôle des substances toxiques, section 8(b), inventaire

EINECS/ELINCS – Inventaire européen des substances chimiques commerciales existantes/Liste européenne des substances chimiques notifiées

DSL/NDSL - Liste canadienne des substances domestiques/Liste canadienne des substances non domestiques

PICCS - Inventaire philippin des substances et produits chimiques

ENCS - Liste japonaise des substances chimiques existantes et nouvelles

IECSC - Inventaire chinois des substances chimiques existantes

AICS - Inventaire australien des substances chimiques (Australian Inventory of Chemical Substances)

KECL - Liste coréenne des substances chimiques existantes et évaluées

15.2 Rapport sur la sécurité chimique

Aucune information disponible

RUBRIQUE 16 : Autres informations

H302 - Nocif en cas d'ingestion

H314 - Provoque des brûlures de la peau et de graves lésions des yeux

Date d'émission	16-mars-2022
Date de révision	16-mars-2022
Remarque sur la révision	Sans objet.

La présente fiche de données de sécurité est conforme aux exigences du règlement (CE) N° 1907/2006

Avis de non-responsabilité

Les informations mentionnées dans ce document sont fournies de bonne foi. Elles ne prétendent toutefois pas être complètes et seront seulement employées comme guide. Meridian Bioscience, Inc. ne pourra être tenu responsable des dommages de quelque nature que ce soit résultant de l'utilisation ou du contact avec le produit décrit ci-dessus.

SECCIÓN 1. Identificación de la sustancia o la mezcla y de la sociedad o la empresa**1.1 Identificador del producto**

Código de producto 002213
Nombre del producto BreathTek™ CO₂ Trapping Cartridge

1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

Uso recomendado 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Datos del proveedor de la ficha de datos de seguridad**Fabricante**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Para más información, póngase en contacto con:

Dirección de correo electrónico www.meridianbioscience.com

1.4 Teléfono de emergencia

Teléfono de urgencias Teléfono de urgencias CHEMTREC (International) 1-703-527-3887 / 1-800-424-9300 para EE.UU.

SECCIÓN 2. Identificación de los peligros**2.1 Clasificación de la sustancia o de la mezcla****Reglamento (CE) N° 1272/2008**

Toxicidad aguda - Oral	Categoría 4
Corrosión o irritación cutáneas	Categoría 1 B

2.2 Elementos de la etiqueta

Palabra de advertencia

Peligro

Indicaciones de peligro

H302 - Nocivo en caso de ingestión

H314 - Provoca quemaduras graves en la piel y lesiones oculares graves

Consejos de prudencia - UE (§28, 1272/2008)

P260 - No respirar el polvo

P264 - Lavarse la cara, las manos y las áreas de la piel expuestas concienzudamente tras la manipulación

P270 - No comer, beber ni fumar durante su utilización

P280 - Llevar guantes/ prendas/ gafas/ máscara de protección.

P301 + P312 - EN CASO DE INGESTIÓN: Llamar a un CENTRO DE INFORMACIÓN TOXICOLÓGICA o a un médico si se encuentra mal

P301 + P330 + P331 - EN CASO DE INGESTIÓN: Enjuagar la boca. NO provocar el vómito

P302 + P352 - EN CASO DE CONTACTO CON LA PIEL: Lavar con agua y jabón abundantes

P303 + P361 + P353 - EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitarse inmediatamente las prendas contaminadas.

Aclararse la piel con agua o ducharse

P304 + P340 - EN CASO DE INHALACIÓN: Transportar a la víctima al exterior y mantenerla en reposo en una posición confortable para respirar

P305 + P351 + P338 - EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos.

Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado

P310 - Llamar inmediatamente a un CENTRO DE INFORMACION TOXICOLOGICA o a un médico

P321 - Se necesita un tratamiento específico (ver las instrucciones adicionales de primeros auxilios en esta etiqueta)

P330 - Enjuagarse la boca

P363 - Lavar las prendas contaminadas antes de volver a usarlas

P405 - Guardar bajo llave

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Otra información**SECCIÓN 3. Composición/información sobre los componentes****3.1 Sustancias****3.2 Mezclas**

Nombre químico	No. CE	Nº CAS	% en peso	Clasificación conforme al Reglamento (CE) Nº 1272/2008 [CLP]	Número de registro REACH
Hidróxido de litio (Li(OH))	Present	1310-65-2	60 - 100	No hay datos disponibles	sin datos disponibles

Para el texto íntegro de las Declaraciones-H mencionadas en esta sección, véase la Sección 16

SECCIÓN 4. Primeros auxilios**4.1 Descripción de los primeros auxilios****Consejo general**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Contacto con los ojos

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Contacto con la piel	IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.
Ingestión	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Inhalación	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Principales síntomas y efectos, agudos y retardados

Síntomas principales	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente

Notas para el médico	Tratar los síntomas.
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SECCIÓN 5. Medidas de lucha contra incendios

5.1 Medios de extinción

Medios de extinción apropiados

Agua pulverizada, Dióxido de carbono (CO₂), Espuma, Producto químico seco.

Medios de extinción que no deben utilizarse por razones de seguridad

No additional information available.

5.2 Peligros específicos derivados de la sustancia o la mezcla

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Recomendaciones para el personal de lucha contra incendios

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

SECCIÓN 6. Medidas en caso de vertido accidental

6.1 Precauciones personales, equipo de protección y procedimientos de emergencia

Evacuar la zona. Ventilar la zona. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Recomendaciones para el personal de emergencia

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Precauciones relativas al medio ambiente

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Métodos y material de contención y de limpieza

Métodos de contención

Evitar la formación de polvo. Contain and collect as any solid.

Métodos de limpieza

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Referencia a otras secciones

See Sections 8 and 13.

SECCIÓN 7. Manipulación y almacenamiento

7.1 Precauciones para una manipulación segura

Recomendaciones para una manipulación sin peligro

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades

Medidas técnicas/Condiciones de almacenamiento

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Usos específicos finales

Otras pautas

No hay información disponible.

SECCIÓN 8. Controles de exposición/protección individual

8.1 Parámetros de control

Límites de exposición

OELs have not been fully established

Nombre químico	Unión Europea	Reino Unido	Francia	España	Alemania
Hidróxido de litio (Li(OH)) 1310-65-2		STEL: 1 mg/m ³			
Nombre químico	Austria	Suiza	Polonia	Noruega	Irlanda
Hidróxido de litio (Li(OH)) 1310-65-2					STEL: 1 mg/m ³

Nivel sin efecto derivado (DNEL) No hay información disponible

Concentración prevista sin efecto (PNEC) No hay información disponible

8.2 Controles de la exposición

Medidas técnicas

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below

recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Equipos de protección personal**Protección de los ojos**

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Protección de las manos

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Protección de la piel y el cuerpo

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Protección respiratoria

Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Otros equipos de protección

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Medidas de higiene

Manipular respetando las buenas prácticas de higiene industrial y seguridad.

Controles de exposición medioambiental

No hay información disponible.

SECCIÓN 9. Propiedades físicas y químicas

9.1 Información sobre propiedades físicas y químicas básicas

Estado físico	Sólido	Olor	Inodoro
Aspecto	granular crystal	Umbral olfativo	No hay datos disponibles
Color	blanco		

Propiedad**Valores****Comentarios • Método**

pH		No hay datos disponibles
Punto de fusión / punto de congelación		No hay datos disponibles
Punto /intervalo de ebullición	470 °C	No hay información disponible
Punto de Inflamación	924 °C	No hay información disponible
Tasa de evaporación		No hay datos disponibles
Inflamabilidad (sólido, gas)		No hay datos disponibles
Límite de inflamabilidad con el aire		No hay datos disponibles
Límite superior de inflamabilidad:		
Límite inferior de inflamabilidad		
Presión de vapor		No hay datos disponibles
Densidad de vapor		No hay datos disponibles
Densidad relativa		No hay datos disponibles
Solubilidad en el agua	10% @ 25°C	
Solubilidad(es)		No hay datos disponibles
Coefficiente de partición		No hay datos disponibles
Temperatura de autoignición		No hay datos disponibles
Temperatura de descomposición		No hay datos disponibles
Viscosidad cinemática		No hay datos disponibles
Viscosidad dinámica		
Propiedades explosivas	No hay datos disponibles	
Propiedades comburentes	No hay datos disponibles	

9.2 Otra información

Punto de reblandecimiento	No hay información disponible
Peso molecular	No hay información disponible
Contenido (%) COV (compuestos orgánicos volátiles)	No hay datos disponibles
Densidad de líquido	14 (1.0 N Solution)
Densidad aparente	No hay información disponible

SECCIÓN 10. Estabilidad y reactividad

10.1 Reactividad

No se conoce reacciones peligrosas bajo condiciones de uso normales.

10.2 Estabilidad química

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Posibilidad de reacciones peligrosas

Reacciones peligrosas

Ninguno conocido.

10.4 Condiciones que deben evitarse

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Materiales incompatibles

Agentes oxidantes fuertes. Ácidos fuertes. Aluminio. Tin. Zinc.

10.6 Productos de descomposición peligrosos

Hydrogen.

SECCIÓN 11. Información toxicológica

11.1 Información sobre los efectos toxicológicos

Toxicidad aguda

Información del producto

Inhalación	Puede provocar irritación del tracto respiratorio.
Contacto con los ojos	Provoca lesiones oculares graves.
Contacto con la piel	Causes severe skin burns.
Ingestión	Nocivo en caso de ingestión.
Toxicidad aguda	Oral: Harmful if swallowed.

Inhalación

Nombre químico	DL50 oral	DL50 cutánea	CL50 por inhalación
Hidróxido de litio (Li(OH))	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Corrosión o irritación cutáneas	Causes severe skin burns.
Daño a los ojos/irritación	Provoca lesiones oculares graves.
Sensibilización	No está clasificado.
Mutagenicidad en células germinales	No está clasificado.
Carcinogenicidad	No está clasificado.

Toxicidad para la reproducción	No está clasificado.
Toxicidad específica en determinados órganos - exposición única	No está clasificado.
Toxicidad específica en determinados órganos - exposiciones repetidas	No está clasificado.
Peligro por aspiración	No está clasificado.

SECCIÓN 12. Información ecológica

12.1 Toxicidad

Efectos de ecotoxicidad Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Nombre químico	Algas/plantas acuáticas	Peces	Crustáceos
Hidróxido de litio (Li(OH))		62.2 mg/l Danio rerio (96h)	

12.2 Persistencia y degradabilidad

No additional information available.

12.3 Potencial de bioacumulación

No additional information available.

12.4 Movilidad en el suelo

Movilidad

No additional information available.

12.5 Resultados de la valoración PBT y mPmB

No additional information available.

12.6 Otros efectos adversos.

No additional information available

SECCIÓN 13. Consideraciones relativas a la eliminación

13.1 Métodos para el tratamiento de residuos

Desechos de residuos / producto no utilizado Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Embalaje contaminado Dispose in a safe manner in accordance with local/national regulations.

SECCIÓN 14. Información relativa al transporte

IATA

14.1. N° ID/ONU	UN2860
14.2. Nombre técnico	Lithium hydroxide
14.3. Clase(s) de peligro para el transporte	8
14.4. Grupo de embalaje	II
Descripción	Medium Danger
14.5. Código ERG	154
14.6.	

SECCIÓN 15. Información reglamentaria

15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla

Inventarios internacionales

TSCA	Cumple
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Leyenda

TSCA - Ley de control de sustancias tóxicas (Toxic Substances Control Act) estadounidense, apartado 8(b), Inventario
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Lista de sustancias domésticas/no domésticas de Canadá
PICCS - Inventario de productos químicos y sustancias químicas de Filipinas
ENCS - Sustancias químicas existentes y nuevas de Japón
IECSC - Inventario de sustancias químicas existentes de China
AICS - Inventario australiano de sustancias químicas (Australian Inventory of Chemical Substances)
KECL - Sustancias químicas existentes y evaluadas de Corea

15.2 Informe de seguridad química

No hay información disponible

SECCIÓN 16. Otra información

H302 - Nocivo en caso de ingestión
 H314 - Provoca quemaduras graves en la piel y lesiones oculares graves

Fecha de publicación	16-mar.-2022
Fecha de revisión	16-mar.-2022
Nota de revisión	No es aplicable.

Esta ficha de datos de seguridad cumple los requisitos del Reglamento (CE) n° 1907/2006

Descargo de responsabilidad

La información provista arriba se cree estar correcta, pero tampoco se pretende que abarque todo y debe solamente ser usada como guía. Meridian Bioscience, Inc. no se considerará responsable por ningún daño que resulte del manejo o del contacto con este producto.

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

1.1 Produktidentifikator

Produktcode 002213
Produktbezeichnung BreathTek™ CO₂ Trapping Cartridge

1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Empfohlene Verwendung 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Hersteller
 Otsuka Electronics co, LTD.
 3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
 Phone: +81-72-855-8550

U.S. Distributor:
 Meridian Bioscience, Inc.
 3471 River Hills Drive
 Cincinnati, Ohio 45244
 (800) 343-3858

Weitere Informationen siehe:

E-Mail-Adresse www.meridianbioscience.com

1.4 Notrufnummer

Notrufnummer Notrufnummer CHEMTREC (International) 1-703-527-3887 / für USA 1-800-424-9300

ABSCHNITT 2: Mögliche Gefahren

2.1 Einstufung des Stoffs oder Gemischs

Richtlinie/Verordnung (EG) Nr. 1272/2008

Akute orale Toxizität	Kategorie 4
Ätz-/Reizwirkung auf die Haut	Kategorie 1 B

2.2 Kennzeichnungselemente



Signalwort

Gefahr

Gefahrenhinweise

H302 - Gesundheitsschädlich bei Verschlucken

H314 - Verursacht schwere Verätzungen der Haut und schwere Augenschäden

Sicherheitshinweise - Verordnung (EG) §28, Nr. 1272/2008

P260 - Staub nicht einatmen

P264 - Nach Gebrauch Gesicht, Hände und exponierte Haut gründlich waschen

P270 - Bei Gebrauch nicht essen, trinken oder rauchen

P280 - Schutzhandschuhe/ Schutzkleidung/ Augenschutz/ Gesichtsschutz tragen.

P301 + P312 - BEI VERSCHLUCKEN: Bei Unwohlsein GIFTINFORMATIONSZENTRUM oder Arzt anrufen

P301 + P330 + P331 - BEI VERSCHLUCKEN: Mund ausspülen. KEIN Erbrechen herbeiführen

P302 + P352 - BEI KONTAKT MIT DER HAUT: Mit viel Wasser und Seife waschen

P303 + P361 + P353 - BEI KONTAKT MIT DER HAUT (oder dem Haar): Alle beschmutzten, getränkten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen/ duschen.

P304 + P340 - BEI EINATMEN: An die frische Luft bringen und in einer Position ruhigstellen, die das Atmen erleichtert

P305 + P351 + P338 - BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen

P310 - Sofort GIFTINFORMATIONSZENTRUM oder Arzt anrufen

P321 - Besondere Behandlung (siehe ergänzende Anweisungen zur Ersten Hilfe auf diesem Kennzeichnungsetikett)

P330 - Mund ausspülen

P363 - Kontaminierte Kleidung vor erneutem Tragen waschen

P405 - Unter Verschluss aufbewahren

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Sonstige Angaben**ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen****3.1 Stoffe****3.2 Gemische**

Chemische Bezeichnung	EG-Nr	CAS-Nr	Gewicht-%	Einstufung gemäß Verordnung (EG) Nr. 1272/2008 [CLP]	REACH-Registrierungsnummer
Lithiumhydroxid	Present	1310-65-2	60 - 100	Keine Daten verfügbar	Keine Daten verfügbar

Den Volltext der in diesem Abschnitt aufgeführten Gefahrenhinweise finden sie unter **Abschnitt 16****ABSCHNITT 4: Erste-Hilfe-Maßnahmen****4.1 Beschreibung der Erste-Hilfe-Maßnahmen****Allgemeine Empfehlung**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Augenkontakt

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Hautkontakt

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Verschlucken

IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from

poison control center. Get medical attention if you feel unwell.

Einatmen

IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**Wichtigste Symptome**

Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**Hinweise an den Arzt**

Symptomatische Behandlung.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung**5.1 Löschmittel****Geeignete Löschmittel**

Sprühwasser, Kohlendioxid (CO₂), Schaum, Trockenlöschmittel.

Löschmittel, die aus Sicherheitsgründen nicht zu verwenden sind

No additional information available.

5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Hinweise für die Brandbekämpfung

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung**6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**

Umgebung räumen. Bereich lüften. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Hinweis für Einsatzkräfte

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Umweltschutzmaßnahmen

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Methoden und Material für Eindämmung und Reinigung

Methoden zur Rückhaltung

Staubbildung vermeiden. Contain and collect as any solid.

Verfahren zur Reinigung

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Verweis auf andere Abschnitte

See Sections 8 and 13.

ABSCHNITT 7: Handhabung und Lagerung

7.1 Schutzmaßnahmen zur sicheren Handhabung

Hinweise zum sicheren Umgang

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Technische Maßnahmen/Lagerungsbedingungen

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Spezifische Endverwendungszwecke

Andere Richtlinien

Es liegen keine Informationen vor.

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

8.1 Zu überwachende Parameter

Expositionsgrenzen

OELs have not been fully established

Chemische Bezeichnung	Europäische Union	Großbritannien	Frankreich	Spanien	Deutschland
Lithiumhydroxid 1310-65-2		STEL: 1 mg/m ³			
Chemische Bezeichnung	Österreich	Schweiz	Polen	Norwegen	Irland
Lithiumhydroxid 1310-65-2					STEL: 1 mg/m ³

Abgeleitete Expositionshöhe ohne Beeinträchtigung (Derived No Effect Level) Es liegen keine Informationen vor

Abgeschätzte Nicht-Effekt-Konzentration (PNEC, predicted no effect concentration)

Es liegen keine Informationen vor

8.2 Begrenzung und Überwachung der Exposition

Technische Steuerungseinrichtungen

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below

recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Persönliche Schutzausrüstung

Augenschutz

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Handschutz

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Haut- und Körperschutz Atemschutz

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Sonstige Schutzausrüstung

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Hygienemaßnahmen

Mit einer guten Arbeitshygiene und Sicherheitstechnik handhaben.

Begrenzung und Überwachung der Umweltexposition

Es liegen keine Informationen vor.

ABSCHNITT 9: Physikalische und chemische Eigenschaften

9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Physikalischer Zustand	Fest	Geruch	Geruchlos
Aussehen	granular crystal	Geruchsschwelle	Keine Daten verfügbar
Farbe	weiß		
Eigenschaft	Werte	Bemerkungen • Methode	
pH-Wert		Keine Daten verfügbar	
Schmelzpunkt / Gefrierpunkt		Keine Daten verfügbar	
Siedepunkt/Siedebereich	470 °C	Es liegen keine Informationen vor	
Flammpunkt	924 °C	Es liegen keine Informationen vor	
Verdampfungsgeschwindigkeit		Keine Daten verfügbar	
Entzündbarkeit (fest, gasförmig)		Keine Daten verfügbar	
Entzündlichkeitsgrenzwert in der Luft		Keine Daten verfügbar	
Obere Entzündbarkeitsgrenze:			
Untere Entzündbarkeitsgrenze			
Dampfdruck		Keine Daten verfügbar	
Dampfdichte		Keine Daten verfügbar	
Spezifisches Gewicht		Keine Daten verfügbar	
Wasserlöslichkeit	10% @ 25°C		
Löslichkeit(en)		Keine Daten verfügbar	
Verteilungskoeffizient		Keine Daten verfügbar	
Selbstentzündungstemperatur		Keine Daten verfügbar	
Zersetzungstemperatur		Keine Daten verfügbar	
Viskosität, kinematisch		Keine Daten verfügbar	
Dynamische Viskosität			
Explosive Eigenschaften	Keine Daten verfügbar		
Oxidierende Eigenschaften	Keine Daten verfügbar		

9.2 Sonstige Angaben

Erweichungspunkt	Es liegen keine Informationen vor
Molekulargewicht	Es liegen keine Informationen vor
Gehalt (%) der flüchtigen organischen Verbindung	Keine Daten verfügbar
Flüssigkeitsdichte	14 (1.0 N Solution)
Schüttdichte	Es liegen keine Informationen vor

ABSCHNITT 10: Stabilität und Reaktivität

10.1 Reaktivität

Keine gefährlichen Reaktionen bekannt bei bestimmungsgemäßem Umgang.

10.2 Chemische Stabilität

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Möglichkeit gefährlicher Reaktionen

Gefährliche Reaktionen

Keine bekannt.

10.4 Zu vermeidende Bedingungen

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Unverträgliche Materialien

Starke Oxidationsmittel. Starke Säuren. Aluminium. Tin. Zinc.

10.6 Gefährliche Zersetzungsprodukte

Hydrogen.

ABSCHNITT 11: Toxikologische Angaben

11.1 Angaben zu toxikologischen Wirkungen

Akute Toxizität

Produktinformationen

Einatmen	Kann zu einer Reizung der Augen und der Atemwege führen.
Augenkontakt	Verursacht schwere Augenschäden.
Hautkontakt	Causes severe skin burns.
Verschlucken	Gesundheitsschädlich bei Verschlucken.
Akute Toxizität	Oral: Harmful if swallowed.

Einatmen

Chemische Bezeichnung	LD50 oral	LD50 dermal	LC50 Einatmen
Lithiumhydroxid	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Ätz-/Reizwirkung auf die Haut	Causes severe skin burns.
Augenschaden/-reizung	Verursacht schwere Augenschäden.
Sensibilisierung	Nicht eingestuft.
Keimzell-Mutagenität	Nicht eingestuft.
Karzinogenität	Nicht eingestuft.

Reproduktionstoxizität	Nicht eingestuft.
Spezifische Zielorgan-Toxizität - einmalige Exposition	Nicht eingestuft.
Spezifische Zielorgan-Toxizität - wiederholte Exposition	Nicht eingestuft.
Aspirationsgefahr	Nicht eingestuft.

ABSCHNITT 12: Umweltbezogene Angaben

12.1 Toxizität

Ökotoxizität Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Chemische Bezeichnung	Algen/Wasserpflanzen	Fische	Krebstiere
Lithiumhydroxid		62.2 mg/l Danio rerio (96h)	

12.2 Persistenz und Abbaubarkeit

No additional information available.

12.3 Bioakkumulationspotenzial

No additional information available.

12.4 Mobilität im Boden

Mobilität

No additional information available.

12.5 Ergebnisse der PBT- und vPvB-Beurteilung

No additional information available.

12.6 Andere schädliche Wirkungen.

No additional information available

ABSCHNITT 13: Hinweise zur Entsorgung

13.1 Verfahren zur Abfallbehandlung

Abfälle von Restmengen / ungebrauchten Produkten Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Kontaminierte Verpackung Dispose in a safe manner in accordance with local/national regulations.

ABSCHNITT 14: Angaben zum Transport

IATA

14.1. UN/ID-Nr	UN2860
14.2. Technischer Name	Lithium hydroxide

14.3. Transportgefahrenklassen	8
14.4. Verpackungsgruppe	II
Beschreibung	Medium Danger
14.5.	
ERG-Code	154
14.6.	

ABSCHNITT 15: Rechtsvorschriften

15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

Internationale Bestandsverzeichnisse

TSCA	Erfüllt
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legende

TSCA - US-amerikanisches Gefahrstoff-Überwachungsgesetz Abschnitt 8(b) Bestandsverzeichnis

EINECS/ELINCS - Europäisches Verzeichnis existierender kommerzieller chemischer Substanzen/Eu Liste der angemeldeten chemischen Stoffe

DSL/NDSL - Kanadische Entsprechung der europäischen Altstoffliste/Kanadische Liste mit Stoffen, die nur im Ausland auf dem Markt sind

PICCS - philippinisches Verzeichnis bestehender Chemikalien und chemischer Substanzen (Philippines Inventory of Chemicals and Chemical Substances)

ENCS - japanisches Verzeichnis bestehender Chemikalien (Japan Existing and New Chemical Substances)

IECSC - chinesisches Verzeichnis bestehender Chemikalien (China Inventory of Existing Chemical Substances)

AICS - Australisches Verzeichnis von chemischen Stoffen (Australian Inventory of Chemical Substances)

KECL - koreanisches Verzeichnis bestehender Chemikalien (Korean Existing and Evaluated Chemical Substances)

15.2 Stoffsicherheitsbericht

Es liegen keine Informationen vor

ABSCHNITT 16: Sonstige Angaben

H302 - Gesundheitsschädlich bei Verschlucken

H314 - Verursacht schwere Verätzungen der Haut und schwere Augenschäden

Ausgabedatum 16-Mrz-2022

Überarbeitet am 16-Mrz-2022

Hinweis zur Überarbeitung Nicht zutreffend.

Dieses Material Sicherheitsdatenblatt entspricht den Anforderungen der Vorschrift (EU) Nr. 1907/2006

Haftungsschluss

Die erwähnten Angaben in diesem Sicherheitsdatenblatt wurden mit grösster Sorgfalt hergestellt. Sie behaupten aber nicht komplett zu sein und sollten nur als Leitfaden benutzt werden. Meridian Bioscience, Inc übernimmt keinerlei Verantwortung für eventuelle Schäden jeglicher Art, die bei Benützung oder Kontakt mit dem oben benannten Produkt hervorkommen könnten.

RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming**1.1 Productidentificatie**

Productcode 002213
Productnaam BreathTek™ CO₂ Trapping Cartridge

1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Aanbevolen gebruik 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**Fabrikant**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Voor meer informatie kunt u contact opnemen met:

E-mailadres www.meridianbioscience.com

1.4 Telefoonnummer voor noodgevallen

Telefoonnummer voor noodgevallen Telefoonnummer voor noodgevallen CHEMTREC (International) 1-703-527-3887 / Voor de Verenigde Staten 1-800-424-9300

RUBRIEK 2: Identificatie van de gevaren**2.1 Indeling van de stof of het mengsel****Verordening (EG) nr. 1272/2008**

Acute toxiciteit - Oraal	Categorie 4
Huidcorrosie/-irritatie	Categorie 1 B

2.2 Etiketteringselementen

Signaalwoord

Gevaar

Gevarenaanduidingen

H302 - Schadelijk bij inslikken

H314 - Veroorzaakt ernstige brandwonden en oogletsel

Voorzorgsmaatregelen - EG (§ 28, 1272/2008)

P260 - Stof niet inademen

P264 - Na het werken met dit product gezicht, handen en alle blootgestelde huid grondig wassen

P270 - Niet eten, drinken of roken tijdens het gebruik van dit product

P280 - Beschermende handschoenen/ beschermende kleding/ oogbescherming/ gelaatsbescherming dragen.

P301 + P312 - NA INSLIKKEN: bij onwel voelen een ANTIGIFCENTRUM of een arts raadplegen

P301 + P330 + P331 - NA INSLIKKEN: de mond spoelen. GEEN braken opwekken

P302 + P352 - BIJ CONTACT MET DE HUID: met veel water en zeep wassen

P303 + P361 + P353 - BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken - huid met water afspoelen/ afdouchen.

P304 + P340 - NA INADEMING: het slachtoffer in de frisse lucht brengen en laten rusten in een houding die het ademen vergemakkelijkt

P305 + P351 + P338 - BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen

P310 - Onmiddellijk een ANTIGIFCENTRUM of een arts raadplegen

P321 - Specifieke behandeling vereist (zie aanvullende eerstehulpinstructies op dit etiket)

P330 - De mond spoelen

P363 - Verontreinigde kleding wassen alvorens deze opnieuw te gebruiken

P405 - Achter slot bewaren

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Overige informatie**RUBRIEK 3: Samenstelling en informatie over de bestanddelen****3.1 Stoffen****3.2 Mengsels**

Naam van chemische stof	EG-Nr	CAS-nr	Gewichts%	Indeling overeenkomstig Verordening (EG) nr. 1272/2008 [CLP]	REACH-registratie nummer
Lithium hydroxide	Present	1310-65-2	60 - 100	Geen gegevens beschikbaar	geen gegevens beschikbaar

Voor de volledige text van H-zinnen zoals vermeld in deze paragraaf, zie paragraaf 16

RUBRIEK 4: Eerstehulpmaatregelen**4.1 Beschrijving van de eerstehulpmaatregelen****Algemeen advies**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Contact met de ogen

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Contact met de huid

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water

for at least 15 minutes. If irritation persists, get medical attention.

Inslikken IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

Inademing IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Belangrijkste acute en uitgestelde symptomen en effecten

Voornaamste verschijnselen Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling

Opmerkingen voor de arts De symptomen behandelen.

RUBRIEK 5: Brandbestrijdingsmaatregelen

5.1 Blusmiddelen

Geschikte blusmiddelen

Waterspray, Kooldioxide (CO₂), Schuim, Droog chemisch product.

Blusmiddelen die om veiligheidsredenen niet gebruikt mogen worden

No additional information available.

5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Advies voor brandweerlieden

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures

Evacuëren. De ruimte ventileren. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Advies voor hulpverleners

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Milieuvoorzorgsmaatregelen

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Insluitings- en reinigingsmethoden en -materiaal**Methoden voor insluiting**

Stofvorming vermijden. Contain and collect as any solid.

Reinigingsmethoden

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Verwijzing naar andere rubrieken

See Sections 8 and 13.

RUBRIEK 7: Hantering en opslag**7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel****Advies over het veilig hanteren van de stof of het preparaat**

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**Technische maatregelen/Opslagomstandigheden**

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Specifiek eindgebruik**Overige richtlijnen**

Geen informatie beschikbaar.

RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming**8.1 Controleparameters**

Blootstellingsgrenswaarden OELs have not been fully established

Naam van chemische stof	Europese Unie	Het Verenigd Koninkrijk	Frankrijk	Spanje	Duitsland
Lithium hydroxide 1310-65-2		STEL: 1 mg/m ³			
Naam van chemische stof	Oostenrijk	Zwitserland	Polen	Noorwegen	Ierland
Lithium hydroxide 1310-65-2					STEL: 1 mg/m ³

Afgeleide doses zonder effect (DNEL) Geen informatie beschikbaar

Voorspelde geen effect-concentratie (PNEC) Geen informatie beschikbaar

8.2 Maatregelen ter beheersing van blootstelling

Technische beheersmaatregelen Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below

recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Persoonlijke**beschermingsmiddelen****Bescherming van de ogen**

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Bescherming van de handen

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Huid- en lichaamsbescherming**Bescherming van de****ademhalingswegen****Overige beschermende****middelen**

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment. Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Hygiënische maatregelen

Goede industriële hygiëne- and veiligheidsprocedures in acht nemen tijdens gebruik.

Beheersing van milieublootstelling Geen informatie beschikbaar.**RUBRIEK 9: Fysische en chemische eigenschappen****9.1 Informatie over fysische en chemische basiseigenschappen****Fysische toestand**

Vaste stof

Voorkomen

granular crystal

Kleur

wit

Geur

Geurloos

Geurdrempelwaarde

Geen gegevens beschikbaar

Eigenschap**Waarden****Opmerkingen • Methode****pH**

Geen gegevens beschikbaar

Smelt- / vriespunt

Geen gegevens beschikbaar

Kookpunt/kooktraject

470 °C

Geen informatie beschikbaar

Vlampunt

924 °C

Geen informatie beschikbaar

Verdampingsnelheid

Geen gegevens beschikbaar

Ontvlambaarheid (vast, gas)

Geen gegevens beschikbaar

Ontvlambaarheidsgrens in lucht

Geen gegevens beschikbaar

Bovenste**ontvlambaarheidsgrens:****Onderste ontvlambaarheidsgrens**

Geen gegevens beschikbaar

Dampspanning

Geen gegevens beschikbaar

Dampdichtheid

Geen gegevens beschikbaar

Relatieve dichtheid

Geen gegevens beschikbaar

Oplosbaarheid in water

10% @ 25°C

Geen gegevens beschikbaar

Oplosbaarheid

Geen gegevens beschikbaar

Verdelingscoëfficiënt

Geen gegevens beschikbaar

Zelfontbrandingstemperatuur

Geen gegevens beschikbaar

Ontledingstemperatuur

Geen gegevens beschikbaar

Kinematische viscositeit

Geen gegevens beschikbaar

Dynamische viscositeit**Ontploffingseigenschappen**

Geen gegevens beschikbaar

Oxiderende eigenschappen

Geen gegevens beschikbaar

9.2 Overige informatie**Verwekingspunt**

Geen informatie beschikbaar

Moleculegewicht

Geen informatie beschikbaar

VOS (vluchtige organische stoffen) gehalte (%)

Geen gegevens beschikbaar

Dampdichtheid

14 (1.0 N Solution)

Bulkdichtheid Geen informatie beschikbaar

RUBRIEK 10: Stabiliteit en reactiviteit

10.1 Reactiviteit

Onder normale gebruiksomstandigheden zijn geen gevaarlijke reacties waargenomen.

10.2 Chemische stabiliteit

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Mogelijke gevaarlijke reacties

Gevaarlijke reacties

Onbekend.

10.4 Te vermijden omstandigheden

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Chemisch op elkaar inwerkende materialen

Sterk oxiderende middelen. Sterke zuren. Aluminium. Tin. Zinc.

10.6 Gevaarlijke ontledingsproducten

Hydrogen.

RUBRIEK 11: Toxicologische informatie

11.1 Informatie over toxicologische effecten

Acute toxiciteit

Productinformatie

Inademing Kan irritatie van de ademhalingswegen veroorzaken.

Contact met de ogen Veroorzaakt ernstig oogletsel.

Contact met de huid Causes severe skin burns.

Inslikken Schadelijk bij inslikken.

Acute toxiciteit Oral: Harmful if swallowed.

Inademing

Naam van chemische stof	Oraal LD50	Dermaal LD50	Inademing LC50
Lithium hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Huidcorrosie/-irritatie Causes severe skin burns.

Oogletsel/-irritatie Veroorzaakt ernstig oogletsel.

Sensibilisatie Niet geclassificeerd.

Mutageniteit in geslachtscellen Niet geclassificeerd.

Kankerverwekkendheid	Niet geclassificeerd.
Voortplantingstoxiciteit	Niet geclassificeerd.
Specifieke doelorgaantoxiciteit - eenmalige blootstelling	Niet geclassificeerd.
Specifieke doelorgaantoxiciteit - herhaalde blootstelling	Niet geclassificeerd.
Gevaar bij inademing	Niet geclassificeerd.

RUBRIEK 12: Ecologische informatie

12.1 Toxiciteit

Ecotoxiciteit Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Naam van chemische stof	Algen/aquatische planten	Vis	Crustacea
Lithium hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistentie en afbreekbaarheid

No additional information available.

12.3 Bioaccumulatie

No additional information available.

12.4 Mobiliteit in de bodem

Mobiliteit

No additional information available.

12.5 Resultaten van PBT- en zPzB-beoordeling

No additional information available.

12.6 Andere schadelijke effecten.

No additional information available

RUBRIEK 13: Instructies voor verwijdering

13.1 Afvalverwerkingsmethoden

Afval van residuen / niet-gebruikte producten Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Verontreinigde verpakking Dispose in a safe manner in accordance with local/national regulations.

RUBRIEK 14: Informatie met betrekking tot het vervoer

IATA

14.1. UN/ID-nr	UN2860
14.2. Technische naam	Lithium hydroxide
14.3. Transportgevarenklasse(n)	8
14.4. Verpakkingsgroep	II
Beschrijving	Medium Danger
14.5. ERG-code	154
14.6.	

RUBRIEK 15: Regelgeving

15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

Internationale inventarissen

TSCA	Voldoet aan
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legenda

- TSCA** - (Toxic Substances Control Act; Amerikaanse wet inzake het beheer van toxische stoffen) Rubriek 8(b) Inventaris
- EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances (Europese inventaris van bestaande chemische handelstoffen/Europese lijst van stoffen waarvan kennisgeving is gedaan)
- DSL/NDSL** - Canadese Domestic Substances List/Non-Domestic Substances List (Canadese lijst van binnenlandse/niet-binnenlandse chemische stoffen)
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances (Filippijnen inventaris van chemicaliën en chemische stoffen)
- ENCS** - Japan Existing and New Chemical Substances (Bestaande en nieuwe chemische stoffen Japan)
- IECSC** - China Inventory of Existing Chemical Substances (Inventaris van bestaande chemische stoffen China)
- AICS** - Australische inventaris voor chemische stoffen (Australian Inventory of Chemical Substances)
- KECL** - Korean Existing and Evaluated Chemical Substances (Koreaanse bestaande en geëvalueerde chemische stoffen)

15.2 Chemicaliënveiligheidsrapport

Geen informatie beschikbaar

RUBRIEK 16: Overige informatie

H302 - Schadelijk bij inslikken
H314 - Veroorzaakt ernstige brandwonden en oogletsel

Datum van uitgifte	16-mrt-2022
Datum van herziening	16-mrt-2022
Opmerking bij revisie	Niet van toepassing.

Dit veiligheidsinformatieblad voldoet aan de eisen van verordening (EG) nr. 1907/2006

Verklaring van afwijzing van aansprakelijkheid

De bovenvermelde gegevens worden geacht volledig betrouwbaar en juist te zijn, evenwel niet allesomvattend. Deze documentatie dient louter als richtlijn gebruikt te worden. Meridian Bioscience, Inc. is derhalve niet aansprakelijk voor eender welke schade voorkomend uit de manipulatie of het gebruik van het bovenvermelde product.

РАЗДЕЛ 1: Идентификация на веществото/сместа и на дружеството/предприятието**1.1 Идентификатори на продукта**

Код на продукта 002213
Наименование на продукта BreathTek™ CO₂ Trapping Cartridge

1.2 Идентифицирани употреби на веществото или сместа, които са от значение, и употреби, които не се препоръчват

Препоръчителна употреба 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Подробни данни за доставчика на информационния лист за безопасност

Производител
Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

За повече информация, моля, свържете се с:

Имейл адрес www.meridianbioscience.com

1.4 Телефонен номер при спешни случаи

Телефон при спешни случаи Телефон за спешни случаи

РАЗДЕЛ 2: Описание на опасностите**2.1 Класифициране на веществото или сместа****РЕГЛАМЕНТ (ЕО) № 1272/2008**

Остра токсичност – орална	Категория 4
Корозия/дразнене на кожата	Категория 1 B

2.2 Елементи на етикета

**Сигнална дума**

Опасност

Предупреждения за опасност

H302 - Вреден при поглъщане

H314 - Причинява тежки изгаряния на кожата и сериозно увреждане на очите

Препоръки за безопасност - ЕС (Чл. 28, 1272/2008)

P260 - Не вдишвайте прах

P264 - Да се измият лицето, ръцете и изложената кожа старателно след употреба

P270 - Да не се яде, пие или пуши при употреба на продукта

P280 - Използвайте предпазни ръкавици/ предпазно облекло/ предпазни очила/ предпазна маска за лице.

P301 + P312 - ПРИ ПОГЛЪЩАНЕ: Незабавно се обадете в ЦЕНТЪР ПО ТОКСИКОЛОГИЯ или на лекар при неразположение

P301 + P330 + P331 - ПРИ ПОГЛЪЩАНЕ: изплакнете устата. НЕ предизвиквайте повръщане

P302 + P352 - ПРИ КОНТАКТ С КОЖАТА: Измийте обилно със сапун и вода

P303 + P361 + P353 - ПРИ КОНТАКТ С КОЖАТА (или косата): Незабавно свалете цялото замърсено облекло. Облейте кожата с вода/ вземете душ

P304 + P340 - ПРИ ВДИШВАНЕ: Изведете пострадалия на чист въздух и го поставете в позиция, улесняваща дишането

P305 + P351 + P338 - ПРИ КОНТАКТ С ОЧИТЕ: промивайте внимателно с вода в продължение на няколко минути. Свалете контактните лещи, ако има такива и доколкото това е възможно. Продължете с изплакването

P310 - Незабавно се обадете в ЦЕНТЪР ПО ТОКСИКОЛОГИЯ или на лекар

P321 - Специализирано лечение (вж допълнителните инструкции за първа помощ на този етикет)

P330 - Изплакнете устата

P363 - Изперете замърсеното облекло преди повторна употреба

P405 – Да се съхранява под ключ

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Друга информация**РАЗДЕЛ 3: Състав/информация за съставките****3.1 Вещества****3.2 Смеси**

Химично наименование	ЕС-No	№ по CAS	Тегловни %	Класификация съгласно Регламент (ЕО) ном. 1272/2008 [CLP]	Регистрационен номер съгласно Регламент REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	Няма налични данни	няма налични данни

За пълният текст на Н-Приложенията включени в тази Секция, виж Секция 16

РАЗДЕЛ 4: Мерки за първа помощ**4.1 Описание на мерките за първа помощ****Общи положения**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

	unconscious person.
Контакт с очите	IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
Контакт с кожата	IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.
Поглъщане	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Вдишване	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Най-съществени остри и настъпващи след известен период от време симптоми и ефекти

Основни симптоми	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Указание за необходимостта от всякакви неотложни медицински грижи и специално лечение

Бележки към лекаря	Третирайте симптоматично.
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РАЗДЕЛ 5: Противопожарни мерки

5.1 Пожарогасителни средства

Подходящи пожарогасителни средства

Воден спрей, Carbon dioxide (CO₂), Пяна, Сух химикал.

Средства, неподходящи за гасене на пожар от съображения за сигурност

No additional information available.

5.2 Особени опасности, които произтичат от веществото или сместа

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Съвети за пожарникарите

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

РАЗДЕЛ 6: Мерки при аварийно изпускане

6.1 Лични предпазни мерки, предпазни средства и процедури при спешни случаи

Евакуирайте зоната. Да се вентилира зоната. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.
Emergency procedures: Evacuate unnecessary personnel.

Съвети за лицата от службите за спешно реагиране

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Предпазни мерки за опазване на околната среда

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Методи и материали за ограничаване и почистване

Методи за ограничаване

Избягвайте образуването на прах. Contain and collect as any solid.

Методи за почистване

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Позоваване на други раздели

See Sections 8 and 13.

РАЗДЕЛ 7: Работа и съхранение

7.1 Предпазни мерки за безопасна работа

Съвети за безопасна работа

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Условия за безопасно съхраняване, включително несъвместимости

Технически условия за съхранение

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Специфична(и) крайна(и) употреба(и)

Други насоки

Няма налична информация.

РАЗДЕЛ 8: Контрол на експозицията/лични предпазни средства

8.1 Параметри на контрол

Граници на експозиция

OELs have not been fully established

Химично наименование	Европейски съюз	Обединеното кралство	Франция	Испания	Германия
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Химично наименование	Австрия	Швейцария	Полша	Норвегия	Ейре
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Получено ниво без ефект за хората (DNEL)

Няма налична информация

Предвидена концентрация без въздействие (PNEC) Няма налична информация

8.2 Контрол на експозицията

Инженерен контрол

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Лични предпазни средства

Защита на очите:

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Защита на ръцете:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Защита на кожата и тялото

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Защита на дихателните пътища

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Други предпазни средства

Хигиенни мерки

Да се обработва в съответствие с най-добрите практики на промишлена хигиена и безопасност.

Контрол на експозицията на околната среда

Няма налична информация.

РАЗДЕЛ 9: Физични и химични свойства

9.1 Информация относно основните физични и химични свойства

Физическо състояние	Твърдо вещество	Мирис	Без мирис
Външен вид	granular crystal	Праг на мириса	Няма налични данни
Цвят	бял		
Свойство	Стойности	Забележки • Метод	
pH		Няма налични данни	
Точка на топене / точка на замръзване		Няма налични данни	
Точка на кипене/интервал на кипене	470 °C	Няма налична информация	
Точка на възпламеняване	924 °C	Няма налична информация	
Скорост на изпаряване		Няма налични данни	
Запалимост (твърди вещества, газ)		Няма налични данни	
Граница на възпламенимост във въздуха		Няма налични данни	
Горна граница на запалимост:			
Долна граница на запалимост			
Налягане на парите		Няма налични данни	
Плътноста на парите		Няма налични данни	
Относително тегло		Няма налични данни	
Разтворимост във вода	10% @ 25°C		
Разтворимост(и)		Няма налични данни	
Коефициент на разпределение		Няма налични данни	
Температура на самозапалване		Няма налични данни	
Температура на разпадане		Няма налични данни	
Кинематичен вискозитет		Няма налични данни	
Динамичен вискозитет		Няма налични данни	

Експлозивни свойства Няма налични данни
Оксидиращи свойства Няма налични данни

9.2 Друга информация

Точка на размекване Няма налична информация
Молекулно тегло Няма налична информация
Съдържание на летливите органични компоненти (VOC) в % Няма налични данни
Плътност на течността 14 (1.0 N Solution)
Обемна плътност Няма налична информация

РАЗДЕЛ 10: Стабилност и реактивност**10.1 Реактивност**

Не са известни опасни реакции при правилна употреба.

10.2 Химична стабилност

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Възможност за опасни реакции

Опасни реакции
Няма известни.

10.4 Условия, които трябва да се избягват

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Несъвместими материали

Силни оксидиращи агенти. Силни киселини. Алуминий. Tin. Zinc.

10.6 Опасни продукти на разпадане

Hydrogen.

РАЗДЕЛ 11: Токсикологична информация**11.1 Информация за токсикологичните ефекти****Остра токсичност****Информация за продуктите**

Вдишване Може да причини раздразнение на респираторния тракт.
Контакт с очите Предизвиква сериозно увреждане на очите.
Контакт с кожата Causes severe skin burns.
Поглъщане Вреден при поглъщане.
Остра токсичност Oral: Harmful if swallowed.

Вдишване

Химично наименование	Орална LD50	Дермална LD50	LC50 при вдишване
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Корозия/дразнене на кожата	Causes severe skin burns.
Очно увреждане/дразнение	Предизвиква сериозно увреждане на очите.
Сенсибилизация	Не е класифициран.
Мутагенност на зародишните клетки	Не е класифициран.
Канцерогенност	Не е класифициран.
Токсичност за репродукцията	Не е класифициран.
Специфична токсичност за определени органи - еднократна експозиция	Не е класифициран.
Специфична токсичност за определени органи - повтаряща се експозиция	Не е класифициран.
Опасност при вдишване	Не е класифициран.

РАЗДЕЛ 12: Екологична информация

12.1 Токсичност

Ефекти на екотоксичност Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Химично наименование	Водорасли/водни растения	Риби	Ракообразни
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Устойчивост и разградимост

No additional information available.

12.3 Биоакмулираща способност

No additional information available.

12.4 Преносимост в почвата

Преносимост

No additional information available.

12.5 Резултати от оценката на РВТ и vPvB

No additional information available.

12.6 Други неблагоприятни ефекти.

No additional information available

РАЗДЕЛ 13: Обезвреждане на отпадъците

13.1 Методи за третиране на отпадъците

Остатъчен материал / неизползвани продукти	Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.
Замърсена опаковка	Dispose in a safe manner in accordance with local/national regulations.

РАЗДЕЛ 14: Информация относно транспортирането**ИАТА (Международна асоциация за въздушен транспорт)**

14.1. UN/ID Номер	UN2860
14.2. Техническо наименование	Lithium hydroxide
14.3. Клас(ове) на опасност при транспортиране	8
14.4. Опаковъчна група	II
Описание	Medium Danger
14.5. Код по ERG	154
14.6.	

РАЗДЕЛ 15: Информация относно нормативната уредба**15.1 Специфични за веществото или сместа нормативна уредба/законодателство относно безопасността, здравето и околната среда****Международни списъци**

TSCA (Закон за контрол на токсичните вещества)	Съответства
EINECS/ELINCS	-
DSL/NDSL	-
PICCS (ФИЛИПИНСКИ СПИСЪК НА ХИМИКАЛИТЕ И ХИМИЧЕСКИТЕ ВЕЩЕСТВА)	-
ENCS	-
IECSC	-
Австралийски списък на химичните вещества (AICS)	-
KECL (КОРЕЙСКИ СПИСЪК НА СЪЩЕСТВУВАЩИТЕ ХИМИЧНИ ВЕЩЕСТВА)	-

Легенда

TSCA	- Закон за контрол на токсичните вещества на САЩ; Раздел 8 (б); Инвентаризационен списък
EINECS/ELINCS	- Европейски списък на съществуващите търговски химични вещества / Европейски списък на нотифицираните химични вещества
DSL/NDSL	- Списък на регистрираните вещества на Канада/Списък на нерегистрираните вещества на Канада
PICCS	- Филипински списък на химикалите и химическите вещества
ENCS	- Японски списък на съществуващите и новите химични вещества
IECSC	- Списък на съществуващите химически вещества в Китай
AICS	- Австралийски списък на химическите вещества (Australian Inventory of Chemical Substances)
KECL	- Корейски списък на съществуващите и оценени химични вещества

15.2 Доклад за безопасност на химичните вещества

Няма налична информация

РАЗДЕЛ 16: Друга информация

H302 - Вреден при поглъщане

H314 - Причинява тежки изгаряния на кожата и сериозно увреждане на очите

Дата на издаване 16-мар-2022

Дата на ревизията 16-мар-2022

Ревизия забележка Не се прилага.

Този информационен лист за безопасност на материала отговаря на изискванията на Регламент(ЕО) № 1907/2006

Ограничение на отговорността

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

ODJELJAK 1.: Identifikacija tvari/smjese i podaci o tvrtki/poduzeću**1.1 Identifikacija proizvoda**

Kod proizvoda 002213
Naziv proizvoda BreathTek™ CO₂ Trapping Cartridge

1.2 Odgovarajuće identificirane namjene tvari ili smjese i namjene koje se ne preporučuju

Preporučena uporaba 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Podaci o dobavljaču koji isporučuje sigurnosno-tehnički list**Proizvođač**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Za daljnje informacije, kontaktirajte:

Adresa elektronske pošte www.meridianbioscience.com

1.4 Broj telefona za izvanredna stanja

Broj telefona za izvanredna stanja Telefon za izvanredna stanja

ODJELJAK 2.: Identifikacija opasnosti**2.1 Razvrstavanje tvari ili smjese****UREDBI (EZ) br. 1272/2008**

Akutna toksičnost, gutanjem	Kategorija 4
nagrizanja/nadraživanja kože	Kategorija 1 B

2.2 Elementi označavanja**Signalna riječ**

Opasnost

Iskazi opasnosti

H302 - Štetno ako se proguta

H314 - Uzrokuje teške opekline kože i ozljede oka

Iskazi opreza - EU (§28, 1272/2008)

P260 - Ne udisati prašinu

P264 - Nakon uporabe temeljito oprati lice, ruke i sve izložene površine kože

P270 - Pri rukovanju proizvodom ne jesti, piti niti pušiti

P280 - Nosite zaštitne rukavice / zaštitna odjeća / zaštitu za oči / zaštitu za lice

P301 + P312 - U SLUČAJU GUTANJA: Ukoliko se ne osjećate dobro, nazovite TOKSIKOLOŠKI CENTAR/ liječnika

P301 + P330 + P331 - AKO SE PROGUTA: isprati usta. NE izazivati povraćanje

P302 + P352 - U SLUČAJU DODIRA S KOŽOM: Oprati velikom količinom sapuna i vode

P303 + P361 + P353 - U SLUČAJU DA DOĐE NA KOŽU (na kosu): Odmah uklonite/ skinite svu kontaminiranu odjeću. Kožu isperite vodom/ pod tušem

P304 + P340 - U SLUČAJU UDISANJA: Premjestiti unesrećenog na svjež zrak, ostaviti ga da miruje i staviti ga u ugodan položaj za disanje

P305 + P351 + P338 - U SLUČAJU DODIRA S OČIMA: oprezno ispirati vodom nekoliko minuta. Ukloniti kontaktne leće ako ih nosite i ako se one lako uklanjaju. Nastaviti ispirati

P310 - Odmah nazovite TOKSIKOLOŠKI CENTAR ili liječnika

P321 - Potrebna je posebna liječnička obrada (vidi dopunske upute o mjerama prve pomoći na ovoj naljepnici)

P330 - Isprati usta

P363 - Oprati zagađenu odjeću prije ponovne uporabe

P405 - Skladištiti pod ključem

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Ostale informacije**ODJELJAK 3.: Sastav/informacije o sastojcima****3.1 Tvari****3.2 Smjese**

Kemijski naziv	EZ-br	CAS br	Težina-%	Razvrstavanje prema Propisu (EC) Br. 1272/2008 [CLP]	Registracijski broj po REACH-u
Litijev hidroksid	Present	1310-65-2	60 - 100	Nema dostupnih podataka	nema dostupnih podataka

Za puni tekst H-izjava navedenih u ovom odjeljku pogledajte odjeljak 16**ODJELJAK 4.: Mjere prve pomoći****4.1 Opis nužnih mjera u hitnim slučajevima****Opći savjet**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Kontakt s očima

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Dodir kože

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Gutanje	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Udisanje	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Najvažniji simptomi i učinci, akutni i odgođeni

Glavni simptomi	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Hitna liječnička pomoć i posebna obrada

Napomene liječniku	Liječiti simptomatski.
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ODJELJAK 5.: Mjere gašenja požara

5.1 Sredstva za gašenje

Odgovarajuća sredstva za gašenje

Vodeni sprej, Ugljik-dioksid (CO₂), Pjena, Suha kemikalija.

Sredstva za gašenje koja se ne smiju koristiti iz sigurnosnih razloga

No additional information available.

5.2 Posebne opasnosti koje proizlaze iz tvari ili smjese

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Savjeti za gasitelje požara

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

ODJELJAK 6.: Mjere kod slučajnog ispuštanja

6.1 Osobne mjere opreza, zaštitna oprema i postupci u slučaju opasnosti

Evakuirati područje. Prozračiti prostor. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Savjet za interventno osoblje

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Mjere zaštite okoliša

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Načini i materijali za zaustavljanje prolijevanja i čišćenje

Metode za zadržavanje

Izbjegavati stvaranje prašine. Contain and collect as any solid.

Metode za čišćenje

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Uputa na druge odjeljke

See Sections 8 and 13.

ODJELJAK 7.: Rukovanje i skladištenje

7.1 Mjere opreza za sigurno rukovanje

Savjet za sigurno rukovanje

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Uvjeti sigurnog skladištenja, uzimajući u obzir moguće inkompatibilnosti

Tehničke mjere/Uvjeti skladištenja

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Posebne krajnje uporabe

Ostale smjernice

Nikakve informacije nisu dostupne.

ODJELJAK 8.: Nadzor nad izloženošću/osobna zaštita

8.1 Nadzorni parametri

Granice izloženosti

OELs have not been fully established

Kemijski naziv	Europska unija	Ujedinjeno Kraljevstvo	Francuska	Španjolska	Njemačka
Litijev hidroksid 1310-65-2		STEL: 1 mg/m ³			
Kemijski naziv	Austrija	Švicarska	Poljska	Norveška	Irska
Litijev hidroksid 1310-65-2					STEL: 1 mg/m ³

Izvedena razina bez učinka (DNEL) Nikakve informacije nisu dostupne

Predviđene koncentracije bez učinka (PNEC) Nikakve informacije nisu dostupne

8.2 Nadzor nad izloženošću

Tehnički nadzor

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Osobna zaštitna oprema**Zaštita očiju**

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Zaštita ruku

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Zaštita tijela i kože**Zaštita dišnog sustava**

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Ostala zaštitna oprema

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Higijenske mjere

Postupati u skladu s dobrim postupcima industrijske higijene i sigurnosti.

Nadzor nad izloženošću okoliša

Nikakve informacije nisu dostupne.

ODJELJAK 9.: Fizikalna i kemijska svojstva**9.1 Informacije o osnovnim fizikalnim i kemijskim svojstvima**

Fizičko stanje	Krutina	Miris	Bez mirisa
Izgled	granular crystal	Prag mirisa	Nema dostupnih podataka
Boja	bijelo		

Svojstvo**Vrijednosti****Napomene • Metoda**

pH		Nema dostupnih podataka
Talište / ledište		Nema dostupnih podataka
Vrelište/područje vrenja	470 °C	Nikakve informacije nisu dostupne
Plamište	924 °C	Nikakve informacije nisu dostupne
Brzina isparavanja		Nema dostupnih podataka
Zapaljivost (kruta tvar, plin)		Nema dostupnih podataka
Granica zapaljivosti u zraku		Nema dostupnih podataka
Gornja granica zapaljivosti:		
Donja granica zapaljivosti:		
Tlak pare		Nema dostupnih podataka
Gustoća pare		Nema dostupnih podataka
Specifična gravitacija		Nema dostupnih podataka
Topljivost u vodi	10% @ 25°C	
Topljivost(i)		Nema dostupnih podataka
Koeficijent raspodjele		Nema dostupnih podataka
Temperatura samozapaljenja		Nema dostupnih podataka
Temperatura raspada		Nema dostupnih podataka
Kinematska viskoznost		Nema dostupnih podataka
Dinamička viskoznost		Nema dostupnih podataka
Eksplzivna svojstva	Nema dostupnih podataka	
Oksidirajuća svojstva	Nema dostupnih podataka	

9.2 Ostale informacije

Točka omekšavanja	Nikakve informacije nisu dostupne
Molekularna težina	Nikakve informacije nisu dostupne
Sadržaj hlapivih organskih spojeva (%)	Nema dostupnih podataka
Gustoća tekućine	14 (1.0 N Solution)
Gustoća rasutog tereta	Nikakve informacije nisu dostupne

ODJELJAK 10.: Stabilnost i reaktivnost**10.1 Reaktivnost**

Nisu poznate opasne reakcije u uvjetima uobičajene uporabe.

10.2 Kemijska stabilnost

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Mogućnost opasnih reakcija

Opasne reakcije

Ni jedan nije poznat.

10.4 Uvjeti koje treba izbjegavati

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Nekompatibilni materijali

Jaka oksidirajuća sredstva. Jake kiseline. Aluminij. Tin. Zinc.

10.6 Opasni proizvodi raspada

Hydrogen.

ODJELJAK 11.: Toksikološke informacije

11.1 Informacije o toksikološkim učincima

Akutna toksičnost

Informacije o proizvodu

Udisanje	Može izazvati nadražaj dišnih putova.
Kontakt s očima	Uzrokuje teške ozljede oka.
Dodir kože	Causes severe skin burns.
Gutanje	Štetno ako se proguta.
Akutna toksičnost	Oral: Harmful if swallowed.

Udisanje

Kemijski naziv	LD50 oralno	LD50 dermalno	LC50 udisanje
Litijev hidroksid	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

nagrizanja/nadraživanja kože Causes severe skin burns.

Oštećenje oka/iritacija Uzrokuje teške ozljede oka.

Preosjetljivost Nije razvrstano.

Mutageni učinak na zametne stanice Nije razvrstano.

Karcinogenost Nije razvrstano.

Reproduktivna toksičnost Nije razvrstano.

Specifična toksičnost za ciljne organe/sustavna toksičnost - Nije razvrstano.

jednokratna izloženost

Specifična toksičnost za ciljne organe/sustavna toksičnost - opetovana izloženost Nije razvrstano.

Opasnost od aspiracije Nije razvrstano.

ODJELJAK 12.: Ekološke informacije**12.1 Toksičnost**

Učinci ekotoksičnosti Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Kemijski naziv	Alge/vodeno bilje	Riba	Ljuskavci
Litijev hidroksid		62.2 mg/l Danio rerio (96h)	

12.2 Postojanost i razgradivost

No additional information available.

12.3 Bioakumulacijski potencijal

No additional information available.

12.4 Pokretljivost u tlu**Pokretljivost**

No additional information available.

12.5 Rezultati ocjenjivanja svojstava PBT i vPvB

No additional information available.

12.6 Ostali štetni učinci.

No additional information available

ODJELJAK 13.: Zbrinjavanje**13.1 Metode obrade otpada**

Otpad od ostataka / nerabljeni proizvodi Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Zagađena ambalaža Dispose in a safe manner in accordance with local/national regulations.

ODJELJAK 14.: Informacije o prijevozu**Međunarodna udruga zrakoplovnih prijevoznika (IATA)**

- 14.1. UN/ID br UN2860
 14.2. Tehnički naziv Lithium hydroxide
 14.3. Prijevozni razred(i) opasnosti 8
 14.4. Skupina pakiranja II

Opis	Medium Danger
14.5.	
ERG Kod	154
14.6.	

ODJELJAK 15.: Informacije o propisima

15.1 Propisi u području sigurnosti, zdravlja i okoliša/posebni propisi za tvar ili smjesu

Međunarodni popisi

TSCA	usuglašeno
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Kazalo

- TSCA - Kontrolni akt o toksičnim tvarima Odjeljak 8(b) Popisna lista Sjedinjenih Država
- EINECS/ELINCS – Europska popisna lista postojećih kemijskih tvari/EU lista prijavljenih kemijskih tvari
- DSL/NDSL - - Kanadska Lista domaćih tvari/Listu ne-domaćih tvari
- PICCS - Filipini Popisna lista kemikalija i kemijskih tvari
- ENCS - Japan Postojeće i nove kemijskih tvari
- IECSC - Kina popisna lista postojećih kemijskih tvari
- AICS - Australijski popis kemijskih tvari
- KECL - Koreanske Postojeće i procijenjene kemijskih tvari

15.2 Izvješće o sigurnosti kemikalije

Nikakve informacije nisu dostupne

ODJELJAK 16.: Ostale informacije

H302 - Štetno ako se proguta
H314 - Uzrokuje teške opekline kože i ozljede oka

Datum izdavanja	16-ožu-2022
Datum revizije	16-ožu-2022
Napomena revizije	Nije primjenljivo.

Ovaj Sigurnosno tehnički list za materijal je u skladu sa zahtjevima Propisa (EC) Br 1907/2006

Ograničavanje od odgovornosti

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

ODDÍL 1: Identifikace látky/směsi a společnosti/podniku**1.1 Identifikátor výrobku**

Kód produktu 002213
Název výrobku BreathTek™ CO₂ Trapping Cartridge

1.2 Příslušná určená použití látky nebo směsi a nedoporučená použití

Doporučované použití 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Podrobné údaje o dodavateli bezpečnostního listu**Výrobce**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Pro další informace kontaktujte:

E-mailová adresa www.meridianbioscience.com

1.4 Telefonní číslo pro naléhavé situace

Telefonní číslo pro naléhavé situace Telefonní číslo pro naléhavé situace

ODDÍL 2: Identifikace nebezpečnosti**2.1 Klasifikace látky nebo směsi****NAŘÍZENÍ (ES) č. 1272/2008**

Akutní toxicita - orální	Kategorie 4
Žíravost/dráždivost pro kůži	Kategorie 1 B

2.2 Prvky označení**Signální slovo**

Nebezpečí

Standardní věty o nebezpečnosti

H302 - Zdraví škodlivý při požití

H314 - Způsobuje těžké poleptání kůže a poškození očí

Bezpečnostní pokyny - EU (§ 28, 1272/2008)

P260 - Nevdechujte prach

P264 - Po manipulaci důkladně omyjte tvář, ruce a exponované části kůže

P270 - Při používání tohoto výrobku nejezte, nepijte ani nekuřte

P280 - Používejte ochranné rukavice/ ochranný oděv/ ochranné brýle/ obličejový štít.

P301 + P312 - PŘI POŽITÍ: Necítíte-li s dobře, volejte TOXIKOLOGICKÉ INFORMAČNÍ STŘEDISKO nebo lékaře

P301 + P330 + P331 - PŘI POŽITÍ: Vypláchněte ústa. NEVYVOLÁVEJTE zvracení

P302 + P352 - PŘI STYKU S KŮŽÍ: Omyjte velkým množstvím vody a mýdla

P303 + P361 + P353 - PŘI STYKU S KŮŽÍ (nebo s vlasy): Veškeré kontaminované části oděvu okamžitě svlékněte. Opláchněte kůži vodou/ osprchujte.

P304 + P340 - PŘI VDECHNUTÍ: Přeneste postiženého na čerstvý vzduch a ponechte jej v klidu v poloze usnadňující dýchání

P305 + P351 + P338 - PŘI ZASAŽENÍ OČÍ: Několik minut opatrně vyplachujte vodou. Vyjměte kontaktní čočky, jsou-li nasazeny a pokud je lze vyjmout snadno. Pokračujte ve vyplachování

P310 - Okamžitě volejte TOXIKOLOGICKÉ INFORMAČNÍ STŘEDISKO nebo lékaře

P321 - Odborné ošetření (viz dodatečné pokyny týkající se první pomoci uvedené na tomto štítku)

P330 - Vypláchněte ústa

P363 - Kontaminovaný oděv před opětovným použitím vyperte

P405 - Skladujte uzamčené

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Další informace

ODDÍL 3: Složení/informace o složkách

3.1 Látky

3.2 Směsi

Chemický název	Č.ES	Č. CAS	Hmotnostní-%	Klasifikace podle nařízení (ES) č. 1272/2008 [CLP]	Registrační číslo REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	K dispozici nejsou žádné údaje	Žádné dostupné údaje

Plný text H-údajů uvedených v tomto oddíle viz oddíl 16

ODDÍL 4: Pokyny pro první pomoc

4.1 Popis první pomoci

Obecné rady

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Kontakt s okem

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Styk s kůží

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Požítí

IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

Inhalace IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Nejdůležitější akutní a opožděné symptomy a účinky

Hlavní příznaky Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Pokyn týkající se okamžité lékařské pomoci a zvláštního ošetření

Informace pro lékaře Symptomaticky ošetřete.

ODDÍL 5: Opatření pro hašení požáru

5.1 Hasiva

Vhodná hasiva

Vodní postřik, Oxid uhličiti (CO₂), Pěna, Suchá chemikálie.

Hasiv, která nesmějí být použita z bezpečnostních důvodů

No additional information available.

5.2 Zvláštní nebezpečnost vyplývající z látky nebo směsi

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Pokyny pro hasiče

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Do not dispose of fire-fighting water in the environment.
Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.
Other information: On contact with water, LiOH generates considerable heat.

ODDÍL 6: Opatření v případě náhodného úniku

6.1 Opatření na ochranu osob, ochranné prostředky a nouzové postupy

Vyklidte prostor. odvětrávejte prostory. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Pokyny pro pracovníky zasahující v případě nouze

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Opatření na ochranu životního prostředí

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the

environment.

6.3 Metody a materiál pro omezení úniku a pro čištění

Způsoby zamezení šíření

Zamezte tvorbě prachu. Contain and collect as any solid.

Čistící metody

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Odkaz na jiné oddíly

See Sections 8 and 13.

ODDÍL 7: Zacházení a skladování

7.1 Opatření pro bezpečné zacházení

Pokyny týkající se postupů bezpečného zacházení

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Podmínky pro bezpečné skladování látek a směsí včetně neslučitelných látek a směsí

Technická opatření/skladovací podmínky

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Specifické konečné / specifická konečná použití

Další směrnice

Informace nejsou k dispozici.

ODDÍL 8: Omezování expozice/osobní ochranné prostředky

8.1 Kontrolní parametry

Expoziční limity

OELs have not been fully established

Chemický název	Evropská unie	Velká Británie	Francie	Španělsko	Německo
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Chemický název	Rakousko	Švýcarsko	Polsko	Norsko	Irsko
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Odvozená úroveň, při které nedochází k nepříznivým účinkům (DNEL)

Informace nejsou k dispozici

Odhadovaná koncentrace, při které nedochází k nepříznivým účinkům (PNEC)

Informace nejsou k dispozici

8.2 Omezování expozice

Technická opatření

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Prostředky osobní ochrany

Ochrana očí	Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.
Ochrana rukou	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Ochrana kůže a těla	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
Ochrana dýchacích cest	Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Další ochranné prostředky	Gloves. Wear chemical goggles and face shield combination. Protective clothing.
Hygienická opatření	S produktem manipulujte v rámci hygienických opatření považovaným za správnou praxi na úrovni pracovišť.
Omezování expozice životního prostředí	Informace nejsou k dispozici.

ODDÍL 9: Fyzikální a chemické vlastnosti**9.1 Informace o základních fyzikálních a chemických vlastnostech**

Skupenství	Pevné	Zápach	Bez zápachu
Vzhled	granular crystal	Prahová hodnota zápachu	K dispozici nejsou žádné údaje
Barva	bílý		

Vlastnost**Hodnoty****Poznámky • Metoda**

pH		K dispozici nejsou žádné údaje
Bod tání / bod tuhnutí		K dispozici nejsou žádné údaje
Bod varu/rozmezí bodu varu	470 °C	Informace nejsou k dispozici
Bod vzplanutí	924 °C	Informace nejsou k dispozici
Rychlost odpařování		K dispozici nejsou žádné údaje
Hořlavost (pevné látky, plyny)		K dispozici nejsou žádné údaje
Mez hořlavosti ve vzduchu		K dispozici nejsou žádné údaje
Horní mez hořlavosti:		
Spodní mez hořlavosti		
Tlak par		K dispozici nejsou žádné údaje
Hustota par		K dispozici nejsou žádné údaje
Měrná hmotnost		K dispozici nejsou žádné údaje
Rozpustnost ve vodě	10% @ 25°C	
Rozpustnost(i)		K dispozici nejsou žádné údaje
Rozdělovací koeficient		K dispozici nejsou žádné údaje
Teplota samovznícení		K dispozici nejsou žádné údaje
Teplota rozkladu		K dispozici nejsou žádné údaje
Kinematická viskozita		K dispozici nejsou žádné údaje
Dynamická viskozita		
Výbušné vlastnosti	K dispozici nejsou žádné údaje	
Oxidační vlastnosti	K dispozici nejsou žádné údaje	

9.2 Další informace

Bod měknutí	Informace nejsou k dispozici
Molekulární hmotnost	Informace nejsou k dispozici
Obsah těkavých organických látek (%)	K dispozici nejsou žádné údaje
Hustota par	14 (1.0 N Solution)
Sypná hustota	Informace nejsou k dispozici

ODDÍL 10: Stálost a reaktivita

10.1 Reaktivita

Nejsou známy nebezpečné reakce při použití za normálních podmínek.

10.2 Chemická stabilita

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Možnost nebezpečných reakcí**Nebezpečné reakce**

Žádné známé.

10.4 Podmínky, kterým je třeba zabránit

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Neslučitelné materiály

Silná oxidační činidla. Silné kyseliny. Hliník. Tin. Zinc.

10.6 Nebezpečné produkty rozkladu

Hydrogen.

ODDÍL 11: Toxikologické informace**11.1 Informace o toxikologických účincích****Akutní toxicita****Informace o výrobku**

Inhalace	Může způsobit podráždění dýchacího traktu.
Kontakt s okem	Způsobuje vážné poškození očí.
Styk s kůží	Causes severe skin burns.
Požítí	Zdraví škodlivý při požití.
Akutní toxicita	Oral: Harmful if swallowed.

Inhalace

Chemický název	Orální LD50	Dermální LD50	LC50 Inhalační
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Žíravost/dráždivost pro kůži Causes severe skin burns.

Poškození/podráždění očí Způsobuje vážné poškození očí.

Senzibilizace Neklasifikováno.

Mutagenita v zárodečných buňkách Neklasifikováno.

Karcinogenita Neklasifikováno.

Toxicita pro reprodukci Neklasifikováno.

Toxicita pro specifické cílové orgány - jednorázová expozice Neklasifikováno.

Toxicita pro specifické cílové orgány - opakovaná expozice Neklasifikováno.

Nebezpečnost při vdechnutí Neklasifikováno.

ODDÍL 12: Ekologické informace

12.1 Toxicita

Ekotoxické účinky Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Chemický název	Řasy/vodní rostliny	Ryby	Korýši
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Perzistence a rozložitelnost

No additional information available.

12.3 Bioakumulační potenciál

No additional information available.

12.4 Mobilita v půdě

Mobilita

No additional information available.

12.5 Výsledky posouzení PBT a vPvB

No additional information available.

12.6 Jiné nepříznivé účinky.

No additional information available

ODDÍL 13: Pokyny pro odstraňování

13.1 Metody nakládání s odpady

Zbytky produktu jako odpad/nepoužitá výrobky Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Znečištěný obal Dispose in a safe manner in accordance with local/national regulations.

ODDÍL 14: Informace pro přepravu

IATA

- 14.1. Kód OSN/ID UN2860
 14.2. Technický název Lithium hydroxide
 14.3. Třída/třídy nebezpečnosti pro 8
 přepravu
 14.4. Obalová skupina II

Popis	Medium Danger
14.5.	
Kód ERG	154
14.6.	

ODDÍL 15: Informace o předpisech

15.1 Nařízení týkající se bezpečnosti, zdraví a životního prostředí/specifické právní předpisy týkající se látky nebo směsi

Mezinárodní seznamy

TSCA	Je v souladu
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legenda

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory (Zákon o kontrole toxických látek Spojených států, oddíl 8(b))
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances (Evropský inventář existujících komerčních chemických látek/Evropský seznam nahlášených chemických látek)
DSL/NDSL - kanadský seznam tuzemských/cizích látek
PICCS - filipínský seznam chemikálií a chemických látek
ENCS - japonský seznam existujících a nových chemických látek
IECSC - čínský seznam existujících chemických látek
AICS - Australský seznam chemických látek (Australian Inventory of Chemical Substances)
KECL - korejský seznam existujících a hodnocených chemických látek

15.2 Zpráva o chemické bezpečnosti

Informace nejsou k dispozici

ODDÍL 16: Další informace

H302 - Zdraví škodlivý při požití
H314 - Způsobuje těžké poleptání kůže a poškození očí

Datum Vydání	16-bře-2022
Datum revize	16-bře-2022
Poznámka k revizi	Nelze aplikovat.

Tento bezpečnostní list splňuje požadavky nařízení (ES) č. 1907/2006

Upozornění

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

PUNKT 1: Identifikation af stoffet/blandingen og af selskabet/virksomheden**1.1 Produktidentifikator**

Produktkode 002213
Produktnavn BreathTek™ CO₂ Trapping Cartridge

1.2 Relevante identificerede anvendelser for stoffet eller blandingen samt anvendelser, der frarådes

Anbefalet anvendelse 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Nærmere oplysninger om leverandøren af sikkerhedsdatabladet**Producent**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Yderligere oplysninger fås ved henvendelse til:

E-mailadresse www.meridianbioscience.com

1.4 Nødtelefon

Nødtelefon Nødtelefon

PUNKT 2: Fareidentifikation**2.1 Klassificering af stoffet eller blandingen****FORORDNING (EF) Nr. 1272/2008**

Akut toksicitet - oral	Kategori 4
Hudætsning/-irritation	Kategori 1 B

2.2 Mærkningselementer**Signalord**

Fare

Faresætninger

H302 - Farlig ved indtagelse

H314 - Forårsager svære ætsninger af huden og øjenskader

Sikkerhedssætninger - EU (§28, 1272/2008)

P260 - Indånd ikke pulver

P264 - Vask ansigtet, hænderne og andre blottede hudområder grundigt efter brug

P270 - Der må ikke spises, drikkes eller ryges under brugen af dette produkt

P280 - Bær beskyttelseshandsker/ beskyttelsestøj/ øjenbeskyttelse/ ansigtsbeskyttelse

P301 + P312 - I TILFÆLDE AF INDTAGELSE: I tilfælde af ubehag ring til en GIFTINFORMATION eller en læge

P301 + P330 + P331 - I TILFÆLDE AF INDTAGELSE: Skyl munden. Fremkald IKKE opkastning

P302 + P352 - VED KONTAKT MED HUDEN: Vask med rigeligt sæbe og vand

P303 + P361 + P353 - VED KONTAKT MED HUDEN (eller håret): Tilmudset tøj tages straks af/ fjernes. Skyl/ brus huden med vand.

P304 + P340 - VED INDÅNDING: Flyt personen til et sted med frisk luft og sørg for, at vedkommende hviler i en stilling, som letter vejrtrækningen

P305 + P351 + P338 - VED KONTAKT MED ØJNENE: Skyl forsigtigt med vand i flere minutter. Fjern eventuelle kontaktlinser, hvis dette kan gøres let. Fortsæt skylning

P310 - Ring omgående til en GIFTINFORMATION eller en læge

P321 - Særlig behandling (se supplerende anvisninger vedrørende førstehjælp på denne etiket)

P330 - Skyl munden

P363 - Tilmudset tøj skal vaskes, før det kan anvendes igen

P405 - Opbevares under lås

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Andre oplysninger**PUNKT 3: Sammensætning af/oplysning om indholdsstoffer****3.1 Stoffer****3.2 Blandinger**

Kemisk navn	EF-Nr	CAS-nr	Vægt-%	Klassificering i henhold til forordning (EF) nr. 1272/2008 [CLP]	REACH-registreringsnummer
Lithium Hydroxide	Present	1310-65-2	60 - 100	Ingen tilgængelige data	ingen data tilgængelige

For den fuldstændige tekst af faresætningerne nævnt i dette punkt, se punkt 16**PUNKT 4: Førstehjælpsforanstaltninger****4.1 Beskrivelse af førstehjælpsforanstaltninger****Generel rådgivning**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Kontakt med øjnene

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Kontakt med huden

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Indtagelse	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Indånding	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Vigtigste symptomer og virkninger, både akutte og forsinkede

Væsentlige symptomer	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Angivelse af om øjeblikkelig lægehjælp og særlig behandling er nødvendig

Information til lægen	Behandles symptomatisk.
------------------------------	-------------------------

PUNKT 5: Brandbekæmpelse

5.1 Slukningsmidler

Egnede slukningsmidler

Vandspray, Kulsyre (CO₂), Skum, Pulver.

Slukningsmidler, der af sikkerhedsgrunde ikke må anvendes

No additional information available.

5.2 Særlige farer i forbindelse med stoffet eller blandingen

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Anvisninger for brandmandskab

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

PUNKT 6: Forholdsregler over for udslip ved uheld

6.1 Personlige sikkerhedsforanstaltninger, personlige værnemidler og nødprocedurer

Evakuer området. Ventilér området. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Anvisninger for brandmandskab

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Miljøbeskyttelsesforanstaltninger

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Metoder og udstyr til inddæmning og oprensning

Metoder til inddæmning

Undgå støvdannelse. Contain and collect as any solid.

Metoder til oprydning

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Henvisning til andre punkter

See Sections 8 and 13.

PUNKT 7: Håndtering og opbevaring

7.1 Forholdsregler for sikker håndtering

Råd om sikker håndtering

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Betingelser for sikker opbevaring, herunder eventuel uforenelighed

Tekniske foranstaltninger/opbevaringsbetingelser

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Særlige anvendelser

Andre retningslinjer

Ingen oplysninger tilgængelige.

PUNKT 8: Eksponeringskontrol/personlige værnemidler

8.1 Kontrolparametre

Eksponeringsgrænser

OELs have not been fully established

Kemisk navn	Den Europæiske Union	U.K.	Frankrig	Spanien	Tyskland
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Kemisk navn	Østrig	Schweiz	Polen	Norge	Irland
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Derived No Effect Level (udledt nuleffektniveau) (DNEL)

Ingen oplysninger tilgængelige

Predicted No Effect Concentration (beregnet nuleffekt-koncentration) (PNEC)

Ingen oplysninger tilgængelige

8.2 Eksponeringskontrol

Tekniske foranstaltninger

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials.

Ensure adequate ventilation, especially in confined areas.

Personlige værnemidler**Beskyttelse af øjne**

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Beskyttelse af hænder

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Beskyttelse af huden og kroppen

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Åndedrætsværn

Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Andre personlige værnemidler

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Hygiejniske foranstaltninger

Skal håndteres i overensstemmelse med god industriel hygiejne- og sikkerhedspraksis.

Foranstaltninger til begrænsning af eksponering af miljøet Ingen oplysninger tilgængelige.

PUNKT 9: Fysiske og kemiske egenskaber

9.1 Oplysninger om grundlæggende fysiske og kemiske egenskaber

Tilstandsform	Fast stof	Lugt	Lugtfri
Udseende	granular crystal	Lugttærskel	Ingen tilgængelige data
Farve	hvid		

Egenskab**Værdier****Bemærkninger • Metode**

pH-værdi		Ingen tilgængelige data
Smeltepunkt / frysepunkt		Ingen tilgængelige data
Kogepunkt/Kogepunktsinterval	470 °C	Ingen oplysninger tilgængelige
Flammepunkt	924 °C	Ingen oplysninger tilgængelige
Fordampningshastighed		Ingen tilgængelige data
Antændelighed (fast stof, luftart)		Ingen tilgængelige data
Antændelsesgrænse i luft		Ingen tilgængelige data
Øvre antændelsesgrænse:		
Nedre antændelsesgrænse		
Damptryk		Ingen tilgængelige data
Dampmassefylde		Ingen tilgængelige data
Massefylde		Ingen tilgængelige data
Vandopløselighed	10% @ 25°C	
Opløselighed		Ingen tilgængelige data
Fordelingskoefficient		Ingen tilgængelige data
Selvantændelsestemperatur		Ingen tilgængelige data
Dekomponeringstemperatur		Ingen tilgængelige data
Kinematisk viskositet		Ingen tilgængelige data
Dynamisk viskositet		
Eksplorative egenskaber	Ingen tilgængelige data	
Oxiderende egenskaber	Ingen tilgængelige data	

9.2 Andre oplysninger

Blødgøringspunkt	Ingen oplysninger tilgængelige
Molekylvægt	Ingen oplysninger tilgængelige
VOC (flygtige organiske forbindelser) indhold (%)	Ingen tilgængelige data
Væskemassefylde	14 (1.0 N Solution)
Bulkdensitet	Ingen oplysninger tilgængelige

PUNKT 10: Stabilitet og reaktivitet

10.1 Reaktivitet

Ingen farlige reaktioner kendt ved normalt brug under normale forhold.

10.2 Kemisk stabilitet

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Risiko for farlige reaktioner**Farlige reaktioner**

Ingen kendt.

10.4 Forhold, der skal undgås

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Materialer, der skal undgås

Stærke oxidationsmidler. Stærke syrer. Aluminium. Tin. Zinc.

10.6 Farlige nedbrydningsprodukter

Hydrogen.

PUNKT 11: Toksikologiske oplysninger**11.1 Oplysninger om toksikologiske virkninger****Akut toksicitet****Produktinformation**

Indånding	Kan forårsage irritation af åndedrætsorganerne.
Kontakt med øjnene	Forårsager alvorlig øjenskade.
Kontakt med huden	Causes severe skin burns.
Indtagelse	Farlig ved indtagelse.
Akut toksicitet	Oral: Harmful if swallowed.

Indånding

Kemisk navn	Oral LD50	Dermal LD50	Indånding LC50
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Hudætsning/-irritation Causes severe skin burns.

Øjenskade/irritation Forårsager alvorlig øjenskade.

Sensibilisering Ikke klassificeret.

Kimcellemutagenicitet Ikke klassificeret.

Carcinogenicitet Ikke klassificeret.

Reproduktionstoksicitet Ikke klassificeret.

Specifik målorgantoksicitet - enkelt eksponering Ikke klassificeret.

Specifik målorgantoksicitet - gentagen eksponering Ikke klassificeret.

Aspirationsfare Ikke klassificeret.

PUNKT 12: Miljøoplysninger

12.1 Toksicitet

Økotoksiske virkninger Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Kemisk navn	Alger/vandplanter	Fisk	Krebsdyr
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistens og nedbrydelighed

No additional information available.

12.3 Bioakkumuleringspotentiale

No additional information available.

12.4 Mobilitet i jord

Mobilitet

No additional information available.

12.5 Resultater af PBT- og vPvB-vurdering

No additional information available.

12.6 Andre negative virkninger.

No additional information available

PUNKT 13: Bortskaffelse

13.1 Metoder til affaldsbehandling

Restaffald/restprodukter Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Kontamineret emballage Dispose in a safe manner in accordance with local/national regulations.

PUNKT 14: Transportoplysninger

IATA

14.1. UN/ID Nr	UN2860
14.2. Teknisk navn	Lithium hydroxide
14.3. Transportfareklasse(r)	8
14.4. Emballagegruppe	II

Beskrivelse	Medium Danger
14.5. ERG-kode	154
14.6.	

PUNKT 15: Oplysninger om regulering

15.1 Særlige bestemmelser/særlig lovgivning for stoffet eller blandingen med hensyn til sikkerhed, sundhed og miljø

Internationale fortegnelser

TSCA	Er i overensstemmelse med
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Tekstforklaring

- TSCA** - Fortegnelse ifølge USA's lov om kontrol med giftige stoffer (Toxic Substances Control Act; TSCA) punkt 8(b)
- EINECS/ELINCS** - europæisk fortegnelse over eksisterende, kommercielle kemiske substanser/EU-liste over anmeldte kemiske substanser
- DSL/NDSL** - Canadian Domestic Substances List (Canadas liste over hjemlige stoffer)/Non-Domestic Substances List (liste over ikke-hjemlige stoffer)
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances (fortegnelse over kemikalier og kemiske stoffer for Filippinerne)
- ENCS** - Japan Existing and New Chemical Substances (markedsførte og nye kemiske stoffer for Japan)
- IECSC** - China Inventory of Existing Chemical Substances (fortegnelse over markedsførte kemiske stoffer for Kina)
- AICS** - Australisk fortegnelse over kemiske stoffer (Australian Inventory of Chemical Substances)
- KECL** - Korean Existing and Evaluated Chemical Substances (liste over markedsførte og evaluerede stoffer for Korea)

15.2 Kemikaliesikkerhedsrapport

Ingen oplysninger tilgængelige

PUNKT 16: Andre oplysninger

H302 - Farlig ved indtagelse
H314 - Forårsager svære ætsninger af huden og øjenskader

Udstedelsesdato	16-mar-2022
Revisionsdato	16-mar-2022
Revisionsnote	Ikke relevant.

Dette sikkerhedsdatablad opfylder kravene i forordning (EF) nr. 1907/2006

Ansvarsfraskrivelse

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

ΤΜΗΜΑ 1: Αναγνωριστικός κωδικός ουσίας/μείγματος και εταιρείας/επιχείρησης**1.1 Αναγνωριστικός κωδικός προϊόντος**

Κωδικός προϊόντος 002213
Όνομασία προϊόντος BreathTek™ CO₂ Trapping Cartridge

1.2 Συναφείς προσδιοριζόμενες χρήσεις της ουσίας ή του μείγματος και αντενδεικνυόμενες χρήσεις

Συνιστώμενη χρήση 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Στοιχεία του προμηθευτή του δελτίου δεδομένων ασφαλείας

Κατασκευαστής
Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Για περισσότερες πληροφορίες, επικοινωνήστε με:

Διεύθυνση email www.meridianbioscience.com

1.4 Αριθμός τηλεφώνου επείγουσας ανάγκης

Τηλέφωνο επείγουσας ανάγκης Αριθμός τηλεφώνου επείγουσας ανάγκης

ΤΜΗΜΑ 2: Προσδιορισμός επικινδυνότητας**2.1 Ταξινόμηση της ουσίας ή του μείγματος**

ΚΑΝΟΝΙΣΜΟΣ (ΕΚ) αριθ. 1272/2008

Όξεία τοξικότητα - από του στόματος	Κατηγορία 4
Διάβρωση/ερεθισμός του δέρματος	Κατηγορία 1 B

2.2 Στοιχεία επισήμανσης

Προειδοποιητική λέξη

Κίνδυνος

Δηλώσεις κινδύνου

H302 - Επιβλαβές σε περίπτωση κατάποσης

H314 - Προκαλεί σοβαρά δερματικά εγκαύματα και οφθαλμικές βλάβες

Δηλώσεις προφύλαξης - EU (§28, 1272/2008)

P260 - Μην αναπνέετε σκόνη

P264 - Πλύνετε το πρόσωπο, τα χέρια και οποιοδήποτε εκτεθειμένο σημείο του δέρματος σχολαστικά μετά το χειρισμό

P270 - Μην τρώτε, πίνετε ή καπνίζετε, όταν χρησιμοποιείτε αυτό το προϊόν

P280 - Να φοράτε προστατευτικά γάντια/ προστατευτικά ενδύματα/ μέσα ατομικής προστασίας για τα μάτια/ πρόσωπο.

P301 + P312 - ΣΕ ΠΕΡΙΠΤΩΣΗ ΚΑΤΑΠΟΣΗΣ: Καλέστε αμέσως το ΚΕΝΤΡΟ ΔΗΛΗΤΗΡΙΑΣΕΩΝ ή ένα γιατρό, εάν αισθανθείτε αδιαθεσία

P301 + P330 + P331 - ΣΕ ΠΕΡΙΠΤΩΣΗ ΚΑΤΑΠΟΣΗΣ: Ξεπλύνετε το στόμα. ΜΗΝ προκαλέσετε εμετό

P302 + P352 - ΣΕ ΠΕΡΙΠΤΩΣΗ ΕΠΑΦΗΣ ΜΕ ΤΟ ΔΕΡΜΑ: Πλύνετε με άφθονο νερό και σαπούνι

P303 + P361 + P353 - ΣΕ ΠΕΡΙΠΤΩΣΗ ΕΠΑΦΗΣ ΜΕ ΤΟ ΔΕΡΜΑ (ή με τα μαλλιά): Αφαιρέστε αμέσως όλα τα μολυσμένα ενδύματα. Ξεπλύνετε το δέρμα με νερό/ στο ντους.

P304 + P340 - ΣΕ ΠΕΡΙΠΤΩΣΗ ΕΙΣΠΝΟΗΣ: Μεταφέρετε τον παθόντα στον καθαρό αέρα και αφήστε τον να ξεκουραστεί σε στάση που διευκολύνει την αναπνοή

P305 + P351 + P338 - ΣΕ ΠΕΡΙΠΤΩΣΗ ΕΠΑΦΗΣ ΜΕ ΤΑ ΜΑΤΙΑ: Ξεπλύνετε προσεκτικά με νερό για αρκετά λεπτά. Αν υπάρχουν φακοί επαφής, αφαιρέστε τους, αν είναι εύκολο. Συνεχίστε να ξεπλένετε

P310 - Καλέστε αμέσως το ΚΕΝΤΡΟ ΔΗΛΗΤΗΡΙΑΣΕΩΝ ή ένα γιατρό

P321 - Χρειάζεται ειδική αγωγή (βλέπε συμπληρωματικές οδηγίες πρώτων βοηθειών στην ετικέτα)

P330 - Ξεπλύνετε το στόμα

P363 - Πλύνετε τα μολυσμένα ενδύματα πριν τα ξαναχρησιμοποιήσετε

P405 - Φυλάσσεται κλειδωμένο

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Άλλες πληροφορίες**ΤΜΗΜΑ 3: Σύνοψη/πληροφορίες για τα συστατικά****3.1 Ουσίες****3.2 Μείγματα**

Χημική ονομασία	ΕΚ-Αριθ	Αρ. CAS	% κ.β.	Ταξινόμηση σύμφωνα με τον Κανονισμό (ΕΚ) υπ' αριθμ. 1272/2008[CLP]	Αριθμός καταχώρισης REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	Δεν διατίθενται δεδομένα	δεν διατίθενται δεδομένα

Για το πλήρες κείμενο των Η-Φράσεων που αναφέρονται σε αυτή την ενότητα, βλέπε Ενότητα 16

ΤΜΗΜΑ 4: Μέτρα πρώτων βοηθειών**4.1 Περιγραφή των μέτρων πρώτων βοηθειών****Γενικές συστάσεις**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Επαφή με τα μάτια

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Επαφή με το δέρμα

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water

for at least 15 minutes. If irritation persists, get medical attention.

Κατάποση IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

Εισπνοή IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Σημαντικότερα συμπτώματα και επιδράσεις, άμεσες ή μεταγενέστερες

Σπουδαιότερα συμπτώματα Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Ένδειξη οιασδήποτε απαιτούμενης άμεσης ιατρικής φροντίδας και ειδικής θεραπείας

Σημείωση για τον ιατρό Προβείτε σε θεραπεία ανάλογα με τα συμπτώματα.

ΤΜΗΜΑ 5: Μέτρα για την καταπολέμηση της πυρκαγιάς

5.1 Πυροσβεστικά μέσα

Κατάλληλα πυροσβεστικά μέσα
Ψεκασμός νερού, Carbon dioxide (CO₂), Αφρός, Ξηρό χημικό μέσο.

Πυροσβεστικά μέσα που δεν πρέπει να χρησιμοποιούνται για λόγους ασφαλείας
No additional information available.

5.2 Ειδικοί κίνδυνοι που προκύπτουν από την ουσία ή το μείγμα

Fire Hazard: Heating may cause a fire.
Explosion Hazard: Product is not an explosive.
Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Συστάσεις για τους πυροσβέστες

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Do not dispose of fire-fighting water in the environment.
Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.
Other information: On contact with water, LiOH generates considerable heat.

ΤΜΗΜΑ 6: Μέτρα για την αντιμετώπιση τυχαίας έκλυσης

6.1 Προσωπικές προφυλάξεις, προστατευτικός εξοπλισμός και διαδικασίες έκτακτης ανάγκης

Εκκενώστε την περιοχή. Αερίστε την περιοχή. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel
Protective equipment: Wear protective equipment as described in Section 8.
Emergency procedures: Evacuate unnecessary personnel.

Συστάσεις για αποκριτές έκτακτης ανάγκης

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Περιβαλλοντικές προφυλάξεις

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Μέθοδοι και υλικά για περιορισμό και καθαρισμό**Μέθοδοι για περιορισμό**

Αποφεύγετε το σχηματισμό σκόνης. Contain and collect as any solid.

Μέθοδοι για καθαρισμό

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Παραπομπή σε άλλα τμήματα

See Sections 8 and 13.

ΤΜΗΜΑ 7: Χειρισμός και αποθήκευση**7.1 Προφυλάξεις για ασφαλή χειρισμό****Συστάσεις για ασφαλή χειρισμό**

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Συνθήκες για την ασφαλή φύλαξη, συμπεριλαμβανομένων τυχόν ασυμβίβαστων**Τεχνικά μέτρα/Συνθήκες αποθήκευσης**

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Ειδική τελική χρήση ή χρήσεις**Άλλες κατευθυντήριες γραμμές**

Καμία διαθέσιμη πληροφορία.

ΤΜΗΜΑ 8: Έλεγχος της έκθεσης/ατομική προστασία**8.1 Παράμετροι ελέγχου****Όρια έκθεσης**

OELs have not been fully established

Χημική ονομασία	Ευρωπαϊκή Ένωση	The United Kingdom	Γαλλία	Ισπανία	Γερμανία
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Χημική ονομασία	Αυστρία	Ελβετία	Πολωνία	Νορβηγία	Ιρλανδία
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Παράγωγο επίπεδο χωρίς επιπτώσεις (DNEL)

Καμία διαθέσιμη πληροφορία

Προβλεπόμενη συγκέντρωση χωρίς επιπτώσεις (PNEC)

Καμία διαθέσιμη πληροφορία

8.2 Έλεγχοι έκθεσης**Μηχανικοί έλεγχοι**

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials.

Ensure adequate ventilation, especially in confined areas.

Μέσα ατομικής προστασίας**Προστασία των ματιών**

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Προστασία των χεριών

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Προστασία δέρματος και σώματος

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Προστασία των αναπνευστικών οδών

Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Λοιπός προστατευτικός εξοπλισμός

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Μέτρα υγιεινής

Χειριστείτε το προϊόν σύμφωνα με την ορθή βιομηχανική πρακτική υγιεινής και ασφάλειας.

Έλεγχοι περιβαλλοντικής έκθεσης

Καμία διαθέσιμη πληροφορία.

ΤΜΗΜΑ 9: Φυσικές και χημικές ιδιότητες**9.1 Στοιχεία για τις βασικές φυσικές και χημικές ιδιότητες**

Φυσική κατάσταση	Στερεό	Οσμή	Άοσμο
Όψη	granular crystal	Όριο οσμής	Δεν διατίθενται δεδομένα
Χρώμα	λευκό		

Ιδιότητα**Τιμές****Παρατηρήσεις • Μέθοδος**

pH		Δεν διατίθενται δεδομένα
Σημείο τήξεως / σημείο πήξεως		Δεν διατίθενται δεδομένα
Σημείο ζέοσης/περιοχή ζέοσης	470 °C	Καμία διαθέσιμη πληροφορία
Σημείο ανάφλεξης	924 °C	Καμία διαθέσιμη πληροφορία
Ταχύτητα εξάτμισης		Δεν διατίθενται δεδομένα
Αναφλεξιμότητα (στερεό, αέριο)		Δεν διατίθενται δεδομένα
Όριο αναφλεξιμότητας στον αέρα		Δεν διατίθενται δεδομένα
Ανώτερη αναφλεξιμότητα:		
Χαμηλότερη αναφλεξιμότητα		
Πίεση ατμών		Δεν διατίθενται δεδομένα
Πυκνότητα ατμών		Δεν διατίθενται δεδομένα
Ειδικό βάρος		Δεν διατίθενται δεδομένα
Υδατοδιαλυτότητα	10% @ 25°C	
Διαλυτότητα (Διαλυτότητες)		Δεν διατίθενται δεδομένα
Συντελεστής κατανομής		Δεν διατίθενται δεδομένα
Θερμοκρασία αυτοανάφλεξης		Δεν διατίθενται δεδομένα
Θερμοκρασία αποσύνθεσης		Δεν διατίθενται δεδομένα
Κινηματικό ιξώδες		Δεν διατίθενται δεδομένα
Δυναμικό ιξώδες		
Εκρηκτικές ιδιότητες	Δεν διατίθενται δεδομένα	
Οξειδωτικές ιδιότητες	Δεν διατίθενται δεδομένα	

9.2 Άλλες πληροφορίες

Σημείο μαλάκυνσης	Καμία διαθέσιμη πληροφορία
Μοριακό βάρος	Καμία διαθέσιμη πληροφορία
Περιεχόμενο (%) της πτητικής οργανικής ένωσης	Δεν διατίθενται δεδομένα
Πυκνότητα υγρού	14 (1.0 N Solution)
Φαινομενική πυκνότητα	Καμία διαθέσιμη πληροφορία

ΤΜΗΜΑ 10: Σταθερότητα και αντιδραστικότητα

10.1 Δραστικότητα

Δεν είναι γνωστή καμία επικίνδυνη αντίδραση σε περίπτωση κανονικής χρήσεως.

10.2 Χημική σταθερότητα

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Πιθανότητα επικίνδυνων αντιδράσεων**Επικίνδυνες αντιδράσεις**

Κανένα γνωστό.

10.4 Συνθήκες προς αποφυγήν

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Μη συμβατά υλικά

Ισχυροί οξειδωτικοί παράγοντες. Ισχυρά οξέα. Αργίλιο. Tin. Zinc.

10.6 Επικίνδυνα προϊόντα αποσύνθεσης

Hydrogen.

ΤΜΗΜΑ 11: Τοξικολογικές πληροφορίες**11.1 Πληροφορίες για τις τοξικολογικές επιπτώσεις****Οξεία τοξικότητα****Πληροφορίες προϊόντος**

Εισπνοή	Μπορεί να προκαλέσει ερεθισμό της αναπνευστικής οδού.
Επαφή με τα μάτια	Προκαλεί σοβαρή οφθαλμική βλάβη.
Επαφή με το δέρμα	Causes severe skin burns.
Κατάποση	Επιβλαβές σε περίπτωση κατάποσης.
Οξεία τοξικότητα	Oral: Harmful if swallowed.

Εισπνοή

Χημική ονομασία	LD50 από το στόμα	Δερματική LD50	Εισπνοή LC50
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Διάβρωση/ερεθισμός του δέρματος Causes severe skin burns.

Οφθαλμική βλάβη / ερεθισμός Προκαλεί σοβαρή οφθαλμική βλάβη.

Ευαισθητοποίηση Δεν έχει ταξινομηθεί.

Μεταλλαξιγένεση των γεννητικών κυττάρων Δεν έχει ταξινομηθεί.

Καρκινογένεση Δεν έχει ταξινομηθεί.

Τοξικότητα στην αναπαραγωγή	Δεν έχει ταξινομηθεί.
Ειδική τοξικότητα στα όργανα-στόχους - μία εφάπαξ έκθεση	Δεν έχει ταξινομηθεί.
Ειδική τοξικότητα στα όργανα στόχους - επαναλαμβανόμενη έκθεση	Δεν έχει ταξινομηθεί.
Κίνδυνος ασφυξίας	Δεν έχει ταξινομηθεί.

ΤΜΗΜΑ 12: Οικολογικές πληροφορίες

12.1 Τοξικότητα

Οικοτοξικές επιπτώσεις Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Χημική ονομασία	Άλγες/υδρόβια φυτά	Ψάρι	Καρκινοειδή
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Ανθεκτικότητα και ικανότητα αποικοδόμησης

No additional information available.

12.3 Δυνατότητα βιοσυσσώρευσης

No additional information available.

12.4 Κινητικότητα στο έδαφος

Κινητικότητα

No additional information available.

12.5 Αποτελέσματα της αξιολόγησης ABT και αΑαB

No additional information available.

12.6 Άλλες αρνητικές επιπτώσεις.

No additional information available

ΤΜΗΜΑ 13: Στοιχεία σχετικά με τη διάθεση

13.1 Μέθοδοι διαχείρισης αποβλήτων

Απόβλητο υπολείματος προϊόντος Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Μολυσμένη συσκευασία Dispose in a safe manner in accordance with local/national regulations.

ΤΜΗΜΑ 14: Πληροφορίες σχετικά με τη μεταφορά

ΙΑΤΑ

14.1. UN/ID No

UN2860

14.2. Τεχνική ονομασία	Lithium hydroxide
14.3. Τάξη/τάξεις κινδύνου κατά τη μεταφορά	8
14.4. Ομάδα συσκευασίας Περιγραφή	II Medium Danger
14.5. Κωδικός ERG	154
14.6.	

ΤΜΗΜΑ 15: Στοιχεία νομοθετικού χαρακτήρα

15.1 Κανονισμοί/νομοθεσία σχετικά με την ασφάλεια, την υγεία και το περιβάλλον για την ουσία ή το μείγμα

Διεθνή Ευρετήρια

TSCA	Συμμορφώνεται
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Υπόμνημα

TSCA - Κατάλογος Τμήματος 8(β) της Πράξης για τον Έλεγχο Τοξικών Ουσιών των ΗΠΑ
 EINECS/ELINCS - Ευρωπαϊκός Κατάλογος των Υφιστάμενων Εμπορικών Χημικών Ουσιών/Κατάλογος Κοινοποιημένων Χημικών Ουσιών ΕΕ
 DSL/NDSL - Κατάλογος Εγχώριων Ουσιών/Κατάλογος Μη Εγχώριων Ουσιών του Καναδά
 PICCS - Κατάλογος Χημικών και Χημικών Ουσιών των Φιλιππίνων
 ENCS - Υπάρχουσες και Νέες Χημικές Ουσίες της Ιαπωνίας
 IECSC - Κατάλογος Υπαρχουσών Χημικών Ουσιών της Κίνας
 AICS - Κατάλογος Χημικών Ουσιών της Αυστραλίας (Australian Inventory of Chemical Substances)
 KECL - Υπαρχουσών και Αξιολογημένων Χημικών Ουσιών της Κορέας

15.2 Έκθεση χημικής ασφάλειας

Καμία διαθέσιμη πληροφορία

ΤΜΗΜΑ 16: Άλλες πληροφορίες

H302 - Επιβλαβές σε περίπτωση κατάποσης
 H314 - Προκαλεί σοβαρά δερματικά εγκαύματα και οφθαλμικές βλάβες

Ημερομηνία έκδοσης	16-Μαρ-2022
Ημερομηνία αναθεώρησης	16-Μαρ-2022
Σημείωση αναθεώρησης	Δεν εφαρμόζεται.

Το παρόν δελτίο δεδομένων ασφαλείας υλικού ικανοποιεί τις απαιτήσεις του Κανονισμού (ΕΚ) υπ' αριθ. 1907/2006

Αποποίηση ευθυνών

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

1. JAGU: Aine/segude ning äriühingu/ettevõtja identifitseerimine**1.1 Tootetähis**

Toote kood 002213
Toote nimetus BreathTek™ CO₂ Trapping Cartridge

1.2 Aine või segu asjaomased kindlaksmääratud kasutusala ning kasutusala, mida ei soovitata

Soovitav kasutusala 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Andmed ohutuskardi tarnija kohta**Tootja**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Täiendava teabe saamiseks võtke palun ühendust:

E-posti aadress www.meridianbioscience.com

1.4 Hädaabitelefoni number

Hädaabitelefoni number Hädaabitelefoni number

2. JAGU: Ohtude identifitseerimine**2.1 Aine või segu klassifitseerimine****MÄÄRUS (EÜ) nr 1272/2008**

Akute toksilisus - suukaudne	4. kategooria
Nahka söövitav/ärritav	1. kategooria B

2.2 Märkimiselemendid**Tunnussõna**

Oht

Ohulaused

H302 - Allaneelamisel kahjulik

H314 - Põhjustab rasket nahasöövitust ja silmakahjustusi

Hoiatuslaused - EÜ (§28, 1272/2008)

P260 - Tolmu mitte sisse hingata

P264 - Pärast käitlemist pesta hoolega nägu, käsi ja ainega kokku puutunud nahka

P270 - Toote käitlemise ajal mitte süüa, juua ega suitsetada

P280 - Kanda kaitsekindaid/ kaitserõivastust/ kaitseprille/ kaitsemaski

P301 + P312 - ALLANEELAMISE KORRAL: halva enesetunde korral võtta ühendust MÜRGISTUSTEA-BEKESKUSE või arstiga

P301 + P330 + P331 - ALLANEELAMISE KORRAL: loputada suud. MITTE kutsuda esile oksendamist

P302 + P352 - NAHALE SATTUMISE KORRAL: pesta rohke vee ja seebiga

P303 + P361 + P353 - NAHALE (või juustele) SATTUMISE KORRAL: võtta viivitamata kõik saastunud rõivad seljast. Loputada nahka veega/ loputada duši all.

P304 + P340 - SISSEHINGAMISE KORRAL: toimetada kannatanu värske õhu kätte ja asetada mugavasse puhkeasendisse, mis võimaldab kergesti hingata

P305 + P351 + P338 - SILMA SATTUMISE KORRAL: loputada mitme minuti jooksul ettevaatlikult veega. Eemaldada

kontaktläätsed, kui neid kasutatakse ja kui neid on kerge eemaldada. Loputada veel kord

P310 - Võtta viivitamata ühendust MÜRGISTUSTEA-BEKESKUSE või arstiga

P321 - Nõuab eriravi (vt täiendavaid juhiseid esmaabi andmise kohta käesoleval etiketil)

P330 - Loputada suud

P363 - Saastunud rõivad enne järgmist kasutamist pesta

P405 - Hoida lukustatult

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Muu teave**3. JAGU: Koostis/teave koostisainete kohta****3.1 Ained****3.2 Segud**

Keemiline nimetus	EC-Nr	CAS nr	massi%	Klassifitseerimine vastavalt määrusele (EÜ) nr 1272/2008 [CLP]	REACH registreerimisnumber
Liitiumhüdroksiid	Present	1310-65-2	60 - 100	Andmed puuduvad	andmed puuduvad

H-teate täisteksti jaoks vastavalt sellele osale, vt osa 16**4. JAGU: Esmaabimeetmed****4.1 Esmaabimeetmete kirjeldus****Üldine nõuanne**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Kokkupuude silmadega

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Kokkupuude nahaga

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Allaneelamine

IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from

poison control center. Get medical attention if you feel unwell.

Sissehingamine

IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Olulisemad akuutsed ja hilisemad sümptomid ning mõju**Peamised sümptomid**

Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Märge igasuguse vältimatu meditsiiniabi ja erikohtlemise vajalikkuse kohta**Teade arstile**

Rakendage sümptomaatilist ravi.

5. JAGU: Tulekustutusmeetmed**5.1 Tulekustutusvahendid****Sobivad kustutusvahendid**

Pihustatud vesi, Süsinikdioksiid (CO₂), Vaht, Kuiv kemikaal.

Kustutusvahendid, mida ei tohi ohutusnõuetest tulenevalt kasutada

No additional information available.

5.2 Aine või seguga seotud erilised ohud

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Nõuanded tuletõrjujatele

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

6. JAGU: Meetmed juhusliku sattumise korral keskkonda**6.1 Isikukaitsemeetmed, kaitsevahendid ja toimimine hädaolukorras**

Ala evakueerida. Ala ventileerida. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Nõuanne päästetöötajatele

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Keskkonnakaitse meetmed

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Tõkestamis- ning puhastamismeetodid ja -vahendid

Ohjeldamismeetodid

Vältida tolmu teket. Contain and collect as any solid.

Puhastusmeetmed

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Viited muudele jagudele

See Sections 8 and 13.

7. JAGU: Käitlemine ja ladustamine

7.1 Ohutu käitlemise tagamiseks vajalikud ettevaatusabinõud

Teave ohutu käitlemise kohta

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Ohutu ladustamise tingimused, sealhulgas sobimatud ladustamistingimused

Tehnilised tingimused / Säilitamistingimused

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Erikasutus

Muud juhised

Teave puudub.

8. JAGU: Kokkupuute ohjamine/isikukaitse

8.1 Kontrolliparameetrid

Kokkupuute piirnormid

OELs have not been fully established

Keemiline nimetus	Euroopa Liit	Ühendatud Kuningriik	Prantsusmaa	Hispaania	Saksamaa
Liitiumhüdrosiid 1310-65-2		STEL: 1 mg/m ³			
Keemiline nimetus	Austria	Šveits	Poola	Norra	Iirimaa
Liitiumhüdrosiid 1310-65-2					STEL: 1 mg/m ³

Tuletatud mittetoimiv tase (DNEL) Teave puudub

Arvutuslik mittetoimiv sisaldus (PNEC) Teave puudub

8.2 Kokkupuute ohjamine

Tehnilised meetmed

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Isikukaitsevahendid

Silmade kaitsmine	Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.
Käte kaitsmine	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Naha- ja kehakaitse Hingamisteede kaitsmine	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Muu kaitsevarustus	Gloves. Wear chemical goggles and face shield combination. Protective clothing.
Hügieenimeetmed	Käidelda vastavalt tööstushügieeni ja -ohutuse headele tavadele.
Kokkupuute ohjamine keskkonnas	Teave puudub.

9. JAGU: Füüsikalised ja keemilised omadused

9.1 Teave üldiste füüsikaliste ja keemiliste omaduste kohta

Füüsikaline olek	Tahke	Lõhn	Lõhnatu
Välimus	granular crystal	Lõhnalävi	Andmed puuduvad
Värvus	valge		
Omadus	Väärtused	Märkused • Meetod	
pH		Andmed puuduvad	
Sulamis- / külmumispunkt		Andmed puuduvad	
Keemistemperatuur/keemistemperatuur vahemik	470 °C	Teave puudub	
Leekpunkt	924 °C	Teave puudub	
Aurustumiskiirus		Andmed puuduvad	
Süttivus (tahke, gaasiline)		Andmed puuduvad	
Süttivuspiir õhus		Andmed puuduvad	
Ülemine süttivuspiir:			
Alumine süttivuspiir			
Aururõhk		Andmed puuduvad	
Auru tihedus		Andmed puuduvad	
Suhteline tihedus		Andmed puuduvad	
Lahustuvus vees	10% @ 25°C		
Lahustuvus(ed)		Andmed puuduvad	
Jaotustegur		Andmed puuduvad	
Isesüttimistemperatuur		Andmed puuduvad	
Lagunemistemperatuur		Andmed puuduvad	
Kinemaatiline viskoossus		Andmed puuduvad	
Dünaamiline viskoossus			
Plahvatusohtlikkus	Andmed puuduvad		
Oksüdeerivad omadused	Andmed puuduvad		
9.2 Muu teave			
Pehmenemispunkt	Teave puudub		
Molekulimass	Teave puudub		
Lenduvate orgaaniliste ainete sisaldus (%) (VOC)	Andmed puuduvad		
Vedeliku tihedus	14 (1.0 N Solution)		
Mahumass	Teave puudub		

10. JAGU: Püsivus ja reaktsioonivõime

10.1 Reaktsioonivõime

Tavapärasel kasutamisel ei toimu ohtlikke reaktsioone.

10.2 Keemiline stabiilsus

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Ohtlike reaktsioonide võimalikkus**Ohtlikud reaktsioonid**

Ei ole teada.

10.4 Tingimused, mida tuleb vältida

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Kokkusobimatud materjalid

Tugevad oksüdeerijad. Tugevad happed. Alumiinium. Tin. Zinc.

10.6 Ohtlikud lagusaadused

Hydrogen.

11. JAGU: Teave toksilisuse kohta**11.1 Teave toksikoloogiliste mõjude kohta****Akuutne toksilisus****Tooteteave**

Sissehingamine Võib põhjustada hingamisteede ärritust.

Kokkupuude silmadega Põhjustab raskeid silmakahjustusi.

Kokkupuude nahaga Causes severe skin burns.

Allaneelamine Allaneelamisel kahjulik.

Akuutne toksilisus Oral: Harmful if swallowed.

Sissehingamine

Keemiline nimetus	Suukaudne, LD50	Nahakaudne, LD50	Sissehingamine LC50
Litiumhüdroksiid	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Nahka söövitav/ärritav Causes severe skin burns.

Silmade kahjustus/ärritus Põhjustab raskeid silmakahjustusi.

Sensibilisatsioon Klassifitseerimata.

Mutageensus sugurakkudele Klassifitseerimata.

Kantserogeensus Klassifitseerimata.

Reproduktiivtoksilisus Klassifitseerimata.

Mürgisus sihtelundi suhtes - ühekordne kokkupuude Klassifitseerimata.

Mürgisus sihtelundi suhtes - korduv Klassifitseerimata.
kokkupuude

Hingamiskahjustused Klassifitseerimata.

12. JAGU: Ökoloogiline teave

12.1 Toksilisus

Ökotoksilisuse mõjud Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Keemiline nimetus	Vetikad/veetaimed	Kala	Vähilaadsed
Liitiumhüdroksiid		62.2 mg/l Danio rerio (96h)	

12.2 Püsivus ja lagunduvus

No additional information available.

12.3 Bioakumulatsioon

No additional information available.

12.4 Liikuvus pinnases

Liikuvus

No additional information available.

12.5 Püsivate, bioakumuleeruvate ja toksiliste ning väga püsivate ja väga bioakumuleeruvate omaduste hindamine

No additional information available.

12.6 Muud kahjulikud mõjud.

No additional information available

13. JAGU: Jäätmekäitlus

13.1 Jäätmetöötlusmeetodid

Vaikude jäätmed / kasutamata toodang Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Saastunud pakend Dispose in a safe manner in accordance with local/national regulations.

14. JAGU: Veonõuded

IATA

14.1. ÜRO/ID Nr	UN2860
14.2. Tehniline nimetus	Lithium hydroxide
14.3. Transpordi ohuklass(id)	8
14.4. Pakendirühm	II
Kirjeldus	Medium Danger
14.5. ERG kood	154
14.6.	

15. JAGU: Reguleerivad õigusaktid

15.1 Ainete ja segude suhtes kohaldatavad ohutuse-, tervise- ja keskkonnaalased eeskirjad/õigusaktid

Rahvusvahelised loetelud

TSCA (toksiliste ainete kontrolli seadus)	Vastab
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL (Lõuna-Korea olemasolevate kemikaalide loetelu)	-

Seletuskiri

TSCA - USA Toksiliste ainete kontrolli seadus, 8(b) osa loetelu
 EINECS/ELINCS - Euroopa Olemasolevate Kaubanduslike Kemikaalide Nimestik/ELi Teavitatud uute keemiliste ainete loetelu
 DSL/NDSL - Kanada kohalike ainete loetelu/muude ainete loetelu
 PICCS - Filipiinide kemikaalide ja keemiliste ainete loetelu
 ENCS - Jaapani olemasolevad ja uued keemilised ained
 IECSC - Hiinas olemasolevate keemiliste ainete loetelu
 AICS - Austraalia keemiliste ainete loetelu (Australian Inventory of Chemical Substances)
 KECL - Korea olemasolevate ja hinnatud keemiliste ainete loetelu

15.2 Kemikaaliohutuse aruanne

Teave puudub

16. JAGU: Muu teave

H302 - Allaneelamisel kahjulik
 H314 - Põhjustab rasket nahasöövitust ja silmakahjustusi

Väljaandmise kuupäev	16-ted-2022
Paranduse kuupäev	16-ted-2022
Parandusmärkus	Pole kohaldatav.

See materjali ohutuskaart on kooskõlas nõuetega, mis sätestatakse määruses (EÜ) nr 1907/2006

Vastutuse välistamine

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

KOHTA 1: Aineen tai seoksen ja yhtiön tai yrityksen tunnistetiedot**1.1 Tuotetunniste**

Tuotekoodi 002213
Tuotteen nimi BreathTek™ CO₂ Trapping Cartridge

1.2 Aineen tai seoksen merkitykselliset tunnistetut käytöt ja käytöt, joita ei suositella

Käyttötarkoitus 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Käyttöturvallisuustiedotteen toimittajan tiedot**Valmistaja**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Lisätietojen saamiseksi ottakaa yhteyttä:

Sähköpostiosoite www.meridianbioscience.com

1.4 Häätäpuhelinnumero

Häätäpuhelinnumero Häätäpuhelinnumero

KOHTA 2: Vaaran yksilöinti**2.1 Aineen tai seoksen luokitus****ASETUS (EY) N:o 1272/2008**

Välitön myrkyllisyys - suun kautta	Kategoria 4
Ihosoövyttävyyys/ihoärsytys	Kategoria 1 B

2.2 Merkinnät**Huomiosana**

Vaara

Vaaralausekkeet

H302 - Haitallista nieltynä

H314 - Voimakkaasti ihoa syövyttävää ja silmiä vaurioittavaa

Turvallisuuslausekkeet - EU (§28, 1272/2008)

P260 - Älä hengitä pölyä

P264 - Pese kasvat, kätet ja muu mahdollisesti altistunut ihoalue huolellisesti käsittelyn jälkeen

P270 - Syöminen, juominen ja tupakointi kielletty kemikaalia käytettäessä

P280 - Käytä suojakäsineitä/ suojavaatetusta/ silmiensuojainta/ kasvonsuojainta.

P301 + P312 - JOS KEMIKAALIA ON NIELTY: Ota yhteys MYRKYTYSTIETOKESKUKSEEN tai lääkäriin, jos ilmenee pahoinvointia

P301 + P330 + P331 - JOS KEMIKAALIA ON NIELTY: Huuhto suu. Ei saa oksennuttaa

P302 + P352 - JOS KEMIKAALIA JOUTUU IHOLLE: Pese runsaalla vedellä ja saippualla

P303 + P361 + P353 - JOS KEMIKAALIA JOUTUU IHOLLE (tai hiuksiin): Riisu saastunut vaatetus välittömästi. Huuhto/ suihkuta iho vedellä.

P304 + P340 - JOS KEMIKAALIA ON HENGITETTY: Siirrä henkilö raittiiseen ilmaan ja pidä lepoasen-nossa, jossa on helppo hengittää

P305 + P351 + P338 - JOS KEMIKAALIA JOUTUU SILMIIN: Huuhto huolellisesti vedellä usean minuutin ajan. Poista mahdolliset piilolinssit, jos sen voi tehdä helposti. Jatka huuhtomista

P310 - Ota välittömästi yhteys MYRKYTYSTIETOKESKUKSEEN tai lääkäriin

P321 - Erytishoitoa tarvitaan (katso lisäensiapuhjeita pakkauksen merkinnöissä)

P330 - Huuhto suu

P363 - Pese saastunut vaatetus ennen uudelleenkäyttöä

P405 - Varastoi lukitussa tilassa

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Muut tiedot**KOHTA 3: Koostumus ja tiedot aineosista****3.1 Aineet****3.2 Seokset**

Kemiallinen nimi	EY-Nro	CAS-nro	Paino-%	Asetuksen (EY) N:o 1272/2008 [CLP] mukainen luokitus	REACH-rekisteröintinumero
Lithium Hydroxide	Present	1310-65-2	60 - 100	Tietoja ei saatavissa	tietoja ei saatavissa

Tässä kohdassa mainittujen H-lausekkeiden täydelliset tekstit ovat kohdassa 16**KOHTA 4: Ensiaputoimenpiteet****4.1 Ensiaputoimenpiteiden kuvaus****Yleisiä ohjeita**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Roiskeet silmiin

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Ihokosketus

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Nieleminen	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Hengitys	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Tärkeimmät oireet ja vaikutukset, sekä välittömät että viivästyneet

Pääasialliset oireet	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Mahdollisesti tarvittavaa välitöntä lääketieteellistä apua ja erityishoitoa koskevat ohjeet

Tietoja lääkärille	Hoito oireiden mukaan.
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KOHTA 5: Palontorjuntatoimenpiteet

5.1 Sammutusaineet

Sopivat sammutusaineet

Vesisuihku, Hiilidioksidi (CO₂), Vaahto, Jauhe.

Sammutusaineet, joita ei saa käyttää turvallisuussyistä

No additional information available.

5.2 Aineesta tai seoksesta johtuvat erityiset vaarat

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Palontorjuntaa koskevat ohjeet

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

KOHTA 6: Toimenpiteet onnettomuuspäästöissä

6.1 Varotoimenpiteet, henkilösuojaimet ja menettely hätätilanteessa

Evakuoi alue. Tuuleta alue. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Neuvoja pelastushenkilökunnalle

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Ympäristöön kohdistuvat varotoimet

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Suojarakenteita ja puhdistusta koskevat menetelmät ja -välineet

Suojausmenetelmät

Vältettävä pölynmuodostusta. Contain and collect as any solid.

Puhdistusohjeet

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Viittaukset muihin kohtiin

See Sections 8 and 13.

KOHTA 7: Käsittely ja varastointi

7.1 Turvallisen käsittelyn edellyttämät toimenpiteet

Turvallisen käsittelyn ohjeet

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Turvallisen varastoinnin edellyttämät olosuhteet, mukaan luettuina yhteensopimattomuudet

Tekniset toimenpiteet/Varasto-olosuhteet

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Erityinen loppukäyttö

Muut suositukset

Tietoja ei saatavissa.

KOHTA 8: Altistumisen ehkäiseminen ja henkilösuojaimet

8.1 Valvontaa koskevat muuttujat

Altistumisen raja-arvot

OELs have not been fully established

Kemiallinen nimi	Euroopan unioni	Englanti	Ranska	Espanja	Saksa
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Kemiallinen nimi	Itävalta	Sveitsi	Puola	Norja	Irlanti
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Johdettu vaikutukseton taso (DNEL) Tietoja ei saatavissa

Todennäköinen vaikutukseton pitoisuus (PNEC)

Tietoja ei saatavissa

8.2 Altistumisen ehkäiseminen

Tekniset torjuntatoimenpiteet

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Henkilösuojaimet

Silmiensuojaus	Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.
Käsien suojaus	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Ihonsuojaus ja Kehon suojaus Hengityselinten suojaus	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Muut suojarusteet	Gloves. Wear chemical goggles and face shield combination. Protective clothing.
Erityisiä suojautumis- ja hygieniaohjeita	Käsittävä hyvän työhygienian ja turvallisuuskäytännön mukaisesti.
Ympäristöstäytymisen ehkäiseminen	Tietoja ei saatavissa.

KOHTA 9: Fysikaaliset ja kemialliset ominaisuudet

9.1 Fysikaalisia ja kemiallisia perusominaisuuksia koskevat tiedot

Olomuoto	Kiinteä aine	Haju	Hajuton
Olomuoto	granular crystal	Hajukynnys	Tietoja ei saatavissa
Väri	valkoinen		
<u>Ominaisuus</u>	<u>Arvot</u>	<u>Huomautuksia • Menetelmä</u>	
pH		Tietoja ei saatavissa	
Sulamis- tai jäätymispiste		Tietoja ei saatavissa	
Kiehumispiste/kiehumisalue	470 °C	Tietoja ei saatavissa	
Leimahduspiste	924 °C	Tietoja ei saatavissa	
Haihtumisnopeus		Tietoja ei saatavissa	
Syttyvyys (kiinteät aineet, kaasut)		Tietoja ei saatavissa	
Syttyvyysraja ilmassa		Tietoja ei saatavissa	
Ylin syttyvyysraja:			
Alin syttyvyysraja			
Höyrynpaine		Tietoja ei saatavissa	
Höyryntiheys		Tietoja ei saatavissa	
Ominaispaino		Tietoja ei saatavissa	
Vesiliukoisuus	10% @ 25°C		
Liukoisuus (liukoisuudet)		Tietoja ei saatavissa	
Jakautumiskerroin		Tietoja ei saatavissa	
Itsesyttymislämpötila		Tietoja ei saatavissa	
Hajoamislämpötila		Tietoja ei saatavissa	
Kinemaattinen viskositeetti		Tietoja ei saatavissa	
Dynaaminen viskositeetti			
Räjähätvyys	Tietoja ei saatavissa		
Hapettavuus	Tietoja ei saatavissa		
9.2 Muut tiedot			
Pehmenemispiste	Tietoja ei saatavissa		
Molekyylipaino	Tietoja ei saatavissa		
VOC(haihtuvilla orgaanisilla yhdisteillä)-pitoisuus (%)	Tietoja ei saatavissa		
Nesteen tiheys	14 (1.0 N Solution)		
Irtotiheys	Tietoja ei saatavissa		

KOHTA 10: Stabiilisuus ja reaktiivisuus

10.1 Reaktiivisuus

Vaarallisia reaktioita ei tunneta normaaleissa käyttöolosuhteissa.

10.2 Kemiallinen stabiilisuus

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Vaarallisten reaktioiden mahdollisuus

Vaaralliset reaktiot

Ei tunneta.

10.4 Vältettävät olosuhteet

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Yhteensopimattomat materiaalit

Voimakkaat hapettimet. Vahvat hapot. Alumiini. Tin. Zinc.

10.6 Vaaralliset hajoamistuotteet

Hydrogen.

KOHTA 11: Myrkyllisyyteen liittyvät tiedot

11.1 Tiedot myrkyllisistä vaikutuksista

Välitön myrkyllisyys

Tuotetiedot

Hengitys	Saattaa ärsyttää hengityselimiä.
Roiskeet silmiin	Vaurioittaa vakavasti silmiä.
Ihokosketus	Causes severe skin burns.
Nieleminen	Haitallista nieltynä.
Välitön myrkyllisyys	Oral: Harmful if swallowed.

Hengitys

Kemiallinen nimi	LD50 suun kautta	LD50 ihon kautta	Hengitys LC50
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Ihosyövyttävyyksi/ihoärsytys Causes severe skin burns.

Silmävaurio/ärsytys Vaurioittaa vakavasti silmiä.

Herkistäminen Ei luokiteltu.

Sukusolujen perimää vaurioittava Ei luokiteltu.

Syöpää aiheuttavat vaikutukset Ei luokiteltu.

Lisääntymiselle vaarallinen Ei luokiteltu.

Elinkohtainen myrkyllisyys - kerta-altistuminen Ei luokiteltu.

Elinkohtainen myrkyllisyys - toistuva altistuminen	Ei luokiteltu.
Aspiraatiovaara	Ei luokiteltu.

KOHTA 12: Tiedot vaarallisuudesta ympäristölle

12.1 Myrkyllisyys

Ekotoksisuusvaikutukset Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Kemiallinen nimi	Levät/vesikasvit	Kala	Äyriäiset
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Pysyvyys ja hajoavuus

No additional information available.

12.3 Biokertyvyys

No additional information available.

12.4 Liikkuvuus maaperässä

Kulkeutuvuus

No additional information available.

12.5 PBT- ja vPvB-arvioinnin tulokset

No additional information available.

12.6 Muut haitalliset vaikutukset.

No additional information available

KOHTA 13: Jätteiden käsittelyyn liittyvät näkökohdat

13.1 Jätteiden käsittelymenetelmät

Jätteet jäännöksistä / käyttämättömistä tuotteista Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Likaantunut pakkaus Dispose in a safe manner in accordance with local/national regulations.

KOHTA 14: Kuljetustiedot

IATA

14.1. YK/TUNNUS-Nro	UN2860
14.2. Tekninen nimi	Lithium hydroxide
14.3. Kuljetuksen vaaraluokka (-luokat)	8
14.4. Pakkausryhmä Selostus	II Medium Danger
14.5.	

ERG-koodi 154
14.6.

KOHTA 15: Lainsäädäntöä koskevat tiedot

15.1 Nimenomaisesti ainetta tai seosta koskevat turvallisuus-, terveys- ja ympäristösäännökset tai -lainsäädäntö

Kansainväliset luettelot

TSCA	Noudattaa
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Merkkien selitys

TSCA - United States Toxic Substances Control Act [Yhdysvaltain myrkyllisten aineiden valvontalaki] 8(b) luettelo
EINECS/ELINCS - Euroopassa kaupallisessa käytössä olevien kemiallisten aineiden luettelo/Euroopassa ilmoitettujen kemiallisten aineiden luettelo (European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances)
DSL/NDSL - Kanadan kotimaisten aineiden/ulkomaisten aineiden luettelo
PICCS - Filippiinien kemikaalien ja kemiallisten aineiden luettelo
ENCS - Japanin kaupallisessa käytössä olevat ja uudet kemialliset aineet
IECSC - Kiinan kaupallisessa käytössä olevat kemialliset aineet
AICS - Australian kemikaaliluettelo (Australian Inventory of Chemical Substances)
KECL - Korean kaupallisessa käytössä olevat ja arvioidut kemialliset aineet

15.2 Kemikaaliturvallisuusraportti

Tietoja ei saatavissa

KOHTA 16: Muut tiedot

H302 - Haitallista nieltynä
H314 - Voimakkaasti ihoa syövyttävää ja silmiä vaurioittavaa

Julkaisemispäivä	16-maaliskuuta 2022
Muutettu viimeksi	16-maaliskuuta 2022
Muutoshuomautus	Ei sovellu.

Tämä käyttöturvallisuustiedote täyttää Asetuksen (EY) N:o 1907/2006 vaatimukset

Vastuuvapauslauseke

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

AVSNITT 1: Identifikasjon av stoffet/stoffblandingen og av selskapet/foretaket**1.1 Produktidentifikator**

Produktkode 002213
Produktnavn BreathTek™ CO₂ Trapping Cartridge

1.2 Relevante identifiserte anvendelser av stoffet eller blandingen og anvendelser som frarådes

Anbefalt bruk 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Detaljer angående leverandøren på sikkerhetsdatabladet**Produsent**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Flere opplysninger kan fås fra:

E-postadresse www.meridianbioscience.com

1.4 Nødtelefonnummer

Nødtelefon Nødnummer

AVSNITT 2: Fareidentifikasjon**2.1 Klassifisering av stoffet eller blandingen****FORORDNING (EF) nr. 1272/2008**

Akutt toksisitet - Oral	Kategori 4
Hudetsing/hudirritasjon	Kategori 1 B

2.2 Etikettelementer**Signalord**

Fare

Fareutsagn

H302 - Farlig ved svelging

H314 - Gir alvorlige etseskader på hud og øyne

P-setninger - EU (§28, 1272/2008)

P260 - Ikke innånd støv

P264 - Vask ansikt, hender og eventuelle eksponerte hudområder grundig etter bruk

P270 - Ikke spis, drikk eller røyk ved bruk av produktet

P280 - Benytt vernehansker/ verneklær/ vernebriller/ ansiktsskjerm

P301 + P312 - VED SVELGING: Kontakt et GIFTINFORMASJONSSENTER eller lege ved ubehag

P301 + P330 + P331 - VED SVELGING: Skyll munnen. IKKE framkall brekning

P302 + P352 - VED HUDKONTAKT: Vask med mye såpe og vann

P303 + P361 + P353 - VED HUDKONTAKT (eller håret): Tilsølte klær må fjernes straks. Skyll/dusj huden med vann

P304 + P340 - VED INNÅNDING: Flytt personen til frisk luft og sørg for at vedkommende hviler i en stilling som letter åndedrettet

P305 + P351 + P338 - VED KONTAKT MED ØYNENE: Skyll forsiktig med vann i flere minutter. Fjern eventuelle kontaktlinser

dersom dette enkelt lar seg gjøre. Fortsett skyllingen

P310 - Kontakt umiddelbart et GIFTINFORMASJONSSENTER eller lege

P321 - Særlig behandling (se førstehjelpsinstruksjoner på etiketten)

P330 - Skyll munnen

P363 - Tilsølte klær må vaskes før de brukes på nytt

P405 - Oppbevares innelåst

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Annen informasjon**AVSNITT 3: Sammensetning/opplysninger om bestanddeler****3.1 Stoffer****3.2 Blandinger**

Kjemisk navn	EC-nr	CAS Nr	Vekt-%	Klassifisering i henhold til regulering (EU) nr. 1272/2008 [CLP]	REACH-registreringsnummer
Lithium Hydroxide	Present	1310-65-2	60 - 100	Ingen data er tilgjengelig	ingen data er tilgjengelig

For den fulle teksten til H-uttalelsene nevnt i denne seksjonen, se Seksjon 16

AVSNITT 4: Førstehjelpstiltak**4.1 Beskrivelse av førstehjelpstiltak****Generelt råd**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Øyekontakt

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Hudkontakt

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Svelging

IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

Innånding IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 De viktigste symptomene og effektene, både akutte og forsinkede

Hovedsymptomer Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Indikasjon av øyeblikkelig legehjelp og spesiell, nødvendig behandling

Merknader til lege Behandle symptomene.

AVSNITT 5: Brannslukkingstiltak

5.1 Slukningsmidler

Egnede slukningsmidler

Vannspray, Karbondioksyd (CO₂), Skum, Tørrkjemikalie.

Slokkingsmidler som av sikkerhetsmessige grunner ikke skal brukes,
No additional information available.

5.2 Spesielle farer som kommer fra stoffet eller blandingen

Fire Hazard: Heating may cause a fire.
Explosion Hazard: Product is not an explosive.
Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Råd til brannbekjempningspersonale

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Do not dispose of fire-fighting water in the environment.
Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.
Other information: On contact with water, LiOH generates considerable heat.

AVSNITT 6: Tiltak ved utilsiktet utslipp

6.1 Personlige forholdsregler, verneutstyr og nødprosedyrer

Evakuer området. Ventiler området. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel
Protective equipment: Wear protective equipment as described in Section 8.
Emergency procedures: Evacuate unnecessary personnel.

Råd for akuttpersonell

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Miljømessige forholdsregler

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the

environment.

6.3 Metoder og materialer for forurensning og opprensning

Metoder for avgrensning

Unngå støvdannelse. Contain and collect as any solid.

Metoder for rengjøring

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Referanse til andre seksjoner

See Sections 8 and 13.

AVSNITT 7: Håndtering og lagring

7.1 Forholdsregler for sikker håndtering

Forholdsregler for sikker håndtering

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Betingelser for sikker oppbevaring, inkludert eventuelle uforenligheter

Tekniske forhåndsregler/Lagringsbetingelser

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Spesielle sluttanvendelser

Andre retningslinjer

Ingen informasjon tilgjengelig.

AVSNITT 8: Eksponeringskontroll/personbeskyttelse

8.1 Kontrollparametre

Eksponeringsgrenser

OELs have not been fully established

Kjemisk navn	Den europeiske unionen	U.K.	Frankrike	Spania	Tyskland
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Kjemisk navn	Østerrike	Sveits	Polen	Norge	Irland
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

DNEL (Derived No Effect Level)

Ingen informasjon tilgjengelig

PNEC (beregnet høyeste konsentrasjon uten virkning)

Ingen informasjon tilgjengelig

8.2 Eksponeringskontroller

Tekniske tiltak

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personlig verneutstyr

Vernebriller

Wear eye protection, including chemical splash shield goggles and a face shield when

Håndvern	possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination. Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Hud- og kroppsvern Åndedrettsvern	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Annet verneustyr	Gloves. Wear chemical goggles and face shield combination. Protective clothing.
Hygienetiltak	Må håndteres i henhold til industriell hygiene- og sikkerhetspraksis.
Miljømessige eksponeringskontroller	Ingen informasjon tilgjengelig.

AVSNITT 9: Fysiske og kjemiske egenskaper

9.1 Informasjon om grunnleggende fysiske og kjemiske egenskaper

Fysisk tilstand	Fast stoff	Lukt	Luktfri
Utseende	granular crystal	Luktterskel	Ingen data er tilgjengelig
Farge	hvit		
Egenskap	Verdier	Bemerkninger • Metode	
pH		Ingen data er tilgjengelig	
Smeltepunkt / frysepunkt		Ingen data er tilgjengelig	
Kokepunkt/kokeområde	470 °C	Ingen informasjon tilgjengelig	
Flammepunkt	924 °C	Ingen informasjon tilgjengelig	
Fordunstningstall		Ingen data er tilgjengelig	
Brennbarhet (fast stoff, gass)		Ingen data er tilgjengelig	
Brennbarhetsgrense i luft		Ingen data er tilgjengelig	
Øvre brennbarhetsgrense:			
Nedre antennelighetsgrense			
Damptrykk		Ingen data er tilgjengelig	
Damp tetthet		Ingen data er tilgjengelig	
Tyngdekraft		Ingen data er tilgjengelig	
Vannløselighet	10% @ 25°C		
Løselighet		Ingen data er tilgjengelig	
Partisjonskoeffisient		Ingen data er tilgjengelig	
Selvantennelsestemperatur		Ingen data er tilgjengelig	
Spaltningstemperatur		Ingen data er tilgjengelig	
Kinematisk viskositet		Ingen data er tilgjengelig	
Dynamisk viskositet			
Eksplorative egenskaper	Ingen data er tilgjengelig		
Oksiderende egenskaper	Ingen data er tilgjengelig		

9.2 Annen informasjon

Mykningspunkt	Ingen informasjon tilgjengelig
Molekylvekt	Ingen informasjon tilgjengelig
VOC Innhold(%)	Ingen data er tilgjengelig
Væsketetthet	14 (1.0 N Solution)
Romdensitet	Ingen informasjon tilgjengelig

AVSNITT 10: Stabilitet og reaktivitet

10.1 Reaktivitet

Ingen farlige reaksjoner kjent under tilstander for normalt bruk.

10.2 Kjemisk stabilitet

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Mulighet for farlige reaksjoner

Farlige reaksjoner

Ingen kjent.

10.4 Forhold som må unngås

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Uforenlige materialer

Sterke oksidasjonsmidler. Sterke syrer. Aluminium. Tin. Zinc.

10.6 Farlige spaltningsprodukter

Hydrogen.

AVSNITT 11: Toksikologiske opplysninger

11.1 Informasjon om toksikologiske effekter

Akutt toksisitet

Produktinformasjon

Innånding	Kan irritere luftveiene.
Øyekontakt	Gir alvorlig øyeskade.
Hudkontakt	Causes severe skin burns.
Svelging	Farlig ved svelging.
Akutt toksisitet	Oral: Harmful if swallowed.

Innånding

Kjemisk navn	Oral LD50	Dermal LD50	Inhalering LC50
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Hudetsing/hudirritasjon	Causes severe skin burns.
Øyenskade/irritasjon	Gir alvorlig øyeskade.
Allergi	Ikke klassifisert.
Mutagent for kimceller	Ikke klassifisert.
Kreftfremkallende	Ikke klassifisert.
Reproduksjonstoksisitet	Ikke klassifisert.
Spesifikk målorgan systemisk giftighet - enkel utsettelse	Ikke klassifisert.
Spesifikk målorgan systemisk giftighet - gjentatt utsettelse	Ikke klassifisert.

Aspirasjonsfare Ikke klassifisert.

AVSNITT 12: Økologiske opplysninger

12.1 Toksisitet

Økotoksisitetseffekter Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Kjemisk navn	Alger/vannplanter	Fisk	Krepsdyr
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistens og nedbrytbarhet

No additional information available.

12.3 Bioakkumulativt potensiale

No additional information available.

12.4 Mobilitet i jord

Mobilitet

No additional information available.

12.5 Resultater av PBT- og vPvB-vurdering

No additional information available.

12.6 Andre uønskede virkninger.

No additional information available

AVSNITT 13: Disponering

13.1 Metoder for avfallsbehandling

Avfall fra rester / ubrukte produkter Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Forurenset emballasje Dispose in a safe manner in accordance with local/national regulations.

AVSNITT 14: Transportopplysninger

IATA

14.1. FN/ID Nr	UN2860
14.2. Teknisk navn	Lithium hydroxide
14.3. Transportfareklasse(r)	8
14.4. Emballasjegruppe	II
Beskrivelse	Medium Danger
14.5. ERG-kode	154
14.6.	

AVSNITT 15: Opplysninger om bestemmelser**15.1 Helse-, miljø- og sikkerhetsforskrifter/-lover som er spesifikke for stoffet eller blandingen****Internasjonale inventarlister****TSCA (Toxic Substance Control Act)** Retter seg etter

EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Forkortelser**TSCA** - Amerikansk lov om kontroll med toksiske stoffer, del 8(b), stoffliste**EINECS/ELINCS** – Europeisk stoffliste over kommersielt bestående, kjemiske stoffer/EU-liste over innmeldte, kjemiske stoffer**DSL/NDSL** - Kanadiske lister over stoffer med lokalt/utenlandsk opphav**PICCS** - Filippinenes liste over kjemikalier og kjemiske stoffer**ENCS** - Japan Eksisterende og nye kjemiske stoffer**IECSC** - Kina, liste over eksisterende kjemiske stoffer**AICS** - Australias stoffliste over kjemiske stoffer (Australian Inventory of Chemical Substances)**KECL** - Korea, eksisterende kjemiske stoffer og stoffer under vurdering**15.2 Kjemisk sikkerhetsrapport**

Ingen informasjon tilgjengelig

AVSNITT 16: Andre opplysninger

H302 - Farlig ved svelging

H314 - Gir alvorlige etseskader på hud og øyne

Utstedelsesdato 16-mar-2022**Revisjonsdato** 16-mar-2022**Ettersynskommentar** Ikke relevant.**Dette sikkerhetsdatabladet oppfyller kravene i forordning (EF) nr. 1907/2006****Ansvarsfraskrivelse**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

SEKCJA 1: Identyfikacja substancji/mieszanki i identyfikacja przedsiębiorstwa**1.1 Identyfikator produktu**

Kod wyrobu 002213
Nazwa produktu BreathTek™ CO₂ Trapping Cartridge

1.2 Istotne zidentyfikowane zastosowania substancji lub mieszaniny oraz zastosowania odradzane

Zalecane zastosowanie 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Dane dotyczące dostawcy karty charakterystyki**Producent**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

W celu uzyskania bardziej szczegółowych informacji prosimy o kontakt:

Adres e-mail www.meridianbioscience.com

1.4 Numer telefonu alarmowego

Telefon awaryjny Emergency telephone CHEMTREC (International) 1-703-527-3887 / For US 1-800-424-9300

SEKCJA 2: Identyfikacja zagrożeń**2.1 Klasyfikacja substancji lub mieszaniny****REGULATION (EC) No 1272/2008**

Toksyczność ostra – droga pokarmowa	Kategoria 4
Działanie żrące/drażniące na skórę	Kategoria 1 B

2.2 Elementy oznakowania

Hasło ostrzegawcze

Niebezpieczeństwo

Zwroty wskazujące na rodzaj zagrożenia

H302 - Działa szkodliwie po połknięciu

H314 - Powoduje poważne oparzenia skóry oraz uszkodzenia oczu

Zwroty wskazujące środki ostrożności - EU (§28, 1272/2008)

P260 - Nie wdychać pyłu

P264 - Dokładnie umyć twarz, ręce i wszelkie narażone powierzchnie skóry po użyciu

P270 - Nie jeść, nie pić i nie palić podczas używania produktu

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P301 + P330 + P331 - W PRZYPADKU POŁKNIECIA: wypłukać usta. NIE wywoływać wymiotów

P302 + P352 - W PRZYPADKU KONTAKTU ZE SKÓRĄ: Umyć dużą ilością wody z mydłem

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - W PRZYPADKU DOSTANIA SIĘ DO OCZU: Ostrożnie płukać wodą przez kilka minut. Wyjąć soczewki kontaktowe, jeżeli są i można je łatwo usunąć. Nadal płukać

P310 - Immediately call a POISON CENTER or doctor/ physician

P321 - Zastosować określone leczenie (patrz dodatkowa instrukcja w zakresie pierwszej pomocy na etykiecie)

P330 - Wypłukać usta

P363 - Wyprać zanieczyszczoną odzież przed ponownym użyciem

P405 - Przechowywać pod zamknięciem

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Inne informacje**SEKCJA 3: Skład/informacja o składnikach****3.1 Substancje****3.2 Mieszanki**

Nazwa chemiczna	EC-No	Nr. CAS	% wagowo	Klasyfikacja według rozporządzenia (WE) Nr 1272/2008 [CLP]	Numer rejestracyjny REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	Brak danych	brak danych

For the full text of the H-Statements mentioned in this Section, see Section 16.

SEKCJA 4: Środki pierwszej pomocy**4.1 Description of first-aid measures****Wskazówka ogólna**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Kontakt z oczyma

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Kontakt ze skórą

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Spożycie	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Wdychanie	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Najważniejsze objawy i działania, zarówno ostre i opóźnione

Main Symptoms	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Wskazania dotyczące wszelkiej natychmiastowej pomocy lekarskiej i szczególnego postępowania z poszkodowanym

Uwagi dla lekarza	Leczyć objawowo.
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SEKCJA 5: Postępowanie w przypadku pożaru

5.1 Środki gaśnicze

Odpowiednie środki gaśnicze

Rozpylona woda, Carbon dioxide (CO₂), Piana, Sucha substancja chemiczna.

Środki gaśnicze, których nie wolno stosować ze względów bezpieczeństwa

No additional information available.

5.2 Szczególne zagrożenia związane z substancją lub mieszaniną

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Informacje dla straży pożarnej

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

SEKCJA 6: Postępowanie w przypadku niezamierzonego uwolnienia do środowiska

6.1 Indywidualne środki ostrożności, sprzęt ochronny i procedury w sytuacjach awaryjnych

Evakuować teren. Przewietrzyć miejsce. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Informacje dla służb ratowniczych

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Środki ostrożności w zakresie ochrony środowiska

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up**Metody ograniczania**

Unikać powstawania pyłu. Contain and collect as any solid.

Metody usuwania

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Odniesienia do innych sekcji

See Sections 8 and 13.

SEKCJA 7: Postępowanie z substancjami i mieszaninami oraz ich magazynowanie**7.1 Środki ostrożności dotyczące bezpiecznego postępowania****Zalecenia dotyczące bezpiecznego postępowania**

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Warunki bezpiecznego magazynowania, w tym informacje dotyczące wszelkich wzajemnych niezgodności**Technical measures/Storage conditions**

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Specific end uses**Inne wytyczne**

Brak danych.

SEKCJA 8: Kontrola narażenia/środki ochrony indywidualnej**8.1 Parametry dotyczące kontroli**

Wartości graniczne narażenia OELs have not been fully established

Nazwa chemiczna	Unia Europejska	The United Kingdom	Francja	Hiszpania	Niemcy
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Nazwa chemiczna	Austria	Szwajcaria	Polska	Norwegia	Irlandia
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Pochodny poziom niepowodujący zmian (DNEL) Brak danych

Przewidywane stężenie niepowodujące zmian w środowisku (PNEC) Brak danych

8.2 Kontrola narażenia**Środki techniczne**

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials.

Ensure adequate ventilation, especially in confined areas.

Wyposażenie ochrony indywidualnej

Ochrona oczu

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Ochrona rąk

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Ochrona skóry i ciała

Ochrona dróg oddechowych

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Inne środki ochrony

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Hygiene measures

Postępować zgodnie z ogólnie przyjętymi zasadami BHP.

Kontrola narażenia środowiska

Brak danych.

SEKCJA 9: Właściwości fizyczne i chemiczne

9.1 Informacje na temat podstawowych właściwości fizycznych i chemicznych

Stan fizyczny	Substancja stała	Zapach	Bezwonny
Wygląd	granular crystal	Próg wyczuwalności zapachu	Brak danych
Barwa	biały		

<u>Własność</u>	<u>Wartości</u>	<u>Uwagi • Metoda</u>
pH		Brak danych
Temperatura topnienia / krzepnięcia		Brak danych
Boiling point/boiling range	470 °C	Brak danych
Temperatura zapłonu	924 °C	Brak danych
Szybkość parowania		Brak danych
Łatwopalność (substancja stała, gaz)		Brak danych
Limit palności w powietrzu		Brak danych
Górna granica palności:		
Dolna granica palności		
Ciśnienie pary		Brak danych
Gęstość pary		Brak danych
Ciężar właściwy		Brak danych
Rozpuszczalność w wodzie	10% @ 25°C	
Rozpuszczalność		Brak danych
Współczynnik podziału		Brak danych
Temperatura samozapłonu		Brak danych
Temperatura rozkładu		Brak danych
Lepkość kinematyczna		Brak danych
Lepkość dynamiczna		Brak danych
Właściwości wybuchowe	Brak danych	
Właściwości utleniające	Brak danych	

9.2 Inne informacje

Temperatura mięknięcia	Brak danych
Masa cząsteczkowa	Brak danych
VOC Content(%)	Brak danych
Gęstość cieczy	14 (1.0 N Solution)
Gęstość nasypowa	Brak danych

SEKCJA 10: Stabilność i reaktywność

10.1 Reaktywność

No dangerous reaction known under conditions of normal use.

10.2 Stabilność chemiczna

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Możliwość występowania niebezpiecznych reakcji**Niebezpieczne reakcje**

Brak znanych.

10.4 Warunki, których należy unikać

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Materiały niekompatybilne

Silne czynniki utleniające. Silne kwasy. Glin. Tin. Zinc.

10.6 Niebezpieczne produkty rozkładu

Hydrogen.

SEKCJA 11: Informacje toksykologiczne

11.1 Informacje dotyczące skutków toksykologicznych**Toksyczność ostra****Informacje o produkcie**

Wdychanie	Może działać drażniąco na drogi oddechowe.
Kontakt z oczyma	Powoduje poważne uszkodzenie oczu.
Kontakt ze skórą	Causes severe skin burns.
Spożycie	Działa szkodliwie po połknięciu.
Toksyczność ostra	Oral: Harmful if swallowed.

Wdychanie

Nazwa chemiczna	LD50, doustne	LD50, skóra	LC50, oddechowe
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Działanie żrące/drażniące na skórę Causes severe skin burns.

Eye damage/irritation Powoduje poważne uszkodzenie oczu.

Uczulenie Nie sklasyfikowano.

Działanie mutagenne na komórki rozrodcze Nie sklasyfikowano.

Rakotwórczość Nie sklasyfikowano.

Działanie szkodliwe na rozrodczość Nie sklasyfikowano.

Specific target organ systemic toxicity (single exposure) Nie sklasyfikowano.

Specific target organ systemic toxicity (repeated exposure) Nie sklasyfikowano.

Zagrożenie przy wdychaniu Nie sklasyfikowano.

SEKCJA 12: Informacje ekologiczne

12.1 Toksyczność

Działanie ekotoksyczne Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Nazwa chemiczna	Glony/rośliny wodne	Ryby	Skorupiaki
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Trwałość i zdolność do rozkładu

No additional information available.

12.3 Zdolność do bioakumulacji

No additional information available.

12.4 Mobilność w glebie

Mobilność

No additional information available.

12.5 Wyniki oceny właściwości PBT i vPvB

No additional information available.

12.6 Inne szkodliwe skutki działania.

No additional information available

SEKCJA 13: Postępowanie z odpadami

13.1 Metody unieszkodliwiania odpadów

Waste from residues / unused products Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Skażone opakowanie Dispose in a safe manner in accordance with local/national regulations.

SEKCJA 14: Informacje dotyczące transportu

IATA

14.1. UN/ID No UN2860
 14.2. Nazwa techniczna Lithium hydroxide
 14.3. Klasa(-y) zagrożenia w 8

transporte

14.4. Grupa pakowania	II
Opis	Medium Danger
14.5.	
Kod ERG	154
14.6.	

SEKCJA 15: Informacje dotyczące przepisów prawnych

15.1 Przepisy prawne dotyczące bezpieczeństwa, zdrowia i ochrony środowiska specyficzne dla substancji lub mieszaniny

Listy międzynarodowe

Ustawa o kontroli substancji toksycznych (TSCA)	Odpowiada
EINECS/ELINCS	-
DSL/NDSL	-
PICCS (Filipiński wykaz chemikaliów i substancji chemicznych)	-
ENCS	-
IECSC	-
AICS	-
KECL (koreański wykaz istniejących - substancji chemicznych)	

Legenda

TSCA - ustawa Stanów Zjednoczonych o kontroli substancji toksycznych, sekcja 8(b) Wykaz
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Kanadyjski wykaz substancji krajowych / Kanadyjski wykaz substancji zagranicznych
PICCS - Filipiński wykaz chemikaliów i substancji chemicznych
ENCS - Substancje istniejące na terenie Japonii i nowe substancje chemiczne
IECSC - Chiński wykaz istniejących substancji chemicznych
AICS - Australijski wykaz substancji chemicznych (Australian Inventory of Chemical Substances)
KECL - Koreański wykaz istniejących i badanych substancji chemicznych

15.2 Raport bezpieczeństwa chemicznego

Brak danych

SEKCJA 16: Inne informacje

H302 - Działa szkodliwie po połknięciu
 H314 - Powoduje poważne oparzenia skóry oraz uszkodzenia oczu

Data wydania	16-Mar-2022
Data aktualizacji	16-Mar-2022
Uwaga aktualizacyjna	Nie dotyczy.

Niniejsza karta charakterystyki substancji spełnia wymogi rozporządzenia (WE) nr 1907/2006

Oświadczenie

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

SECÇÃO 1: Identificação da substância/mistura e da sociedade/empresa**1.1 Identificador do produto**

Código do produto 002213
Nome do produto BreathTek™ CO₂ Trapping Cartridge

1.2 Utilizações identificadas relevantes da substância ou mistura e utilizações desaconselhadas

Utilização recomendada 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Identificação do fornecedor da ficha de dados de segurança**Fabricante**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Para mais informações, contacte:

Endereço Eletrónico www.meridianbioscience.com

1.4 Número de telefone de emergência

Número de telefone de emergência Número de telefone de emergência

SECÇÃO 2: Identificação dos perigos**2.1 Classificação da substância ou mistura****REGULAMENTO (CE) N.º 1272/2008**

Toxicidade aguda - Via oral	Categoria 4
Corrosão/irritação cutânea	Categoria 1 B

2.2 Elementos do rótulo**Palavra-sinal**

Perigo

Advertências de perigo

H302 - Nocivo por ingestão

H314 - Provoca queimaduras na pele e lesões oculares graves

Recomendações de Prudência - UE (Art. 28.º, 1272/2008)

P260 - Não respirar as poeiras

P264 - Lavar o rosto, as mãos e toda a pele exposta cuidadosamente após manuseamento

P270 - Não comer, beber ou fumar durante a utilização deste produto

P280 - Usar luvas de protecção/ vestuário de protecção/ protecção ocular/ protecção facial.

P301 + P312 - EM CASO DE INGESTÃO: caso sinta indisposição, contacte um CENTRO DE INFORMAÇÃO ANTIVENENOS ou um médico

P301 + P330 + P331 - EM CASO DE INGESTÃO: enxaguar a boca. NÃO provocar o vômito

P302 + P352 - SE ENTRAR EM CONTACTO COM A PELE: lavar com sabonete e água abundantes

P303 + P361 + P353 - SE ENTRAR EM CONTACTO COM A PELE (ou o cabelo): despir/ retirar imediatamente toda a roupa contaminada. Enxaguar a pele com água/ tomar um duche.

P304 + P340 - EM CASO DE INALAÇÃO: retirar a vítima para uma zona ao ar livre e mantê-la em repouso numa posição que não dificulte a respiração

P305 + P351 + P338 - SE ENTRAR EM CONTACTO COM OS OLHOS: enxaguar cuidadosamente com água durante vários minutos. Se usar lentes de contacto, retire-as, se tal lhe for possível. Continuar a enxaguar

P310 - Contacte imediatamente um CENTRO DE INFORMAÇÃO ANTIVENENOS ou um médico

P321 - Tratamento específico (ver instruções de primeiros socorros suplementares no presente rótulo)

P330 - Enxaguar a boca

P363 - Lavar a roupa contaminada antes de a voltar a usar

P405 - Armazenar em local fechado à chave

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Outras informações**SECÇÃO 3: Composição/informação sobre os componentes****3.1 Substâncias****3.2 Misturas**

Nome Químico	No. CE	N.º CAS	% Peso	Classificação de acordo com o Regulamento (CE) n.º 1272/2008 [CRE]	Número de registo REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	Sem dados disponíveis	sem dados disponíveis

Para o pleno texto das DECLARAÇÕES H mencionadas nesta Secção, ver a Secção 16

SECÇÃO 4: Medidas de primeiros socorros**4.1 Descrição das medidas de primeiros socorros****Recomendação geral**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Contacto com os olhos

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Contacto com a pele

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water

for at least 15 minutes. If irritation persists, get medical attention.

Ingestão IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

Inalação IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Sintomas e efeitos mais importantes, tanto agudos como retardados

Sintomas principais Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Indicações sobre cuidados médicos urgentes e tratamentos especiais necessários

Notas ao médico Tratar os sintomas.

SECÇÃO 5: Medidas de combate a incêndios

5.1 Meios de extinção

Meios Adequados de Extinção

Água pulverizada, Dióxido de carbono (CO₂), Espuma, Produto químico seco.

Meios de extinção que, por razões de segurança, não devam ser utilizados

No additional information available.

5.2 Perigos especiais decorrentes da substância ou mistura

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Recomendações para o pessoal de combate a incêndios

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

SECÇÃO 6: Medidas a tomar em caso de fugas acidentais

6.1 Precauções individuais, equipamento de protecção e procedimentos de emergência

Evacuar a zona. Ventile a área. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Recomendações para o pessoal responsável pela resposta à emergência

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Precauções a nível ambiental

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Métodos e materiais de confinamento e limpeza**Métodos de Confinamento**

Evitar a formação de poeira. Contain and collect as any solid.

Métodos de limpeza

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Remissão para outras secções

See Sections 8 and 13.

SECÇÃO 7: Manuseamento e armazenagem**7.1 Precauções para um manuseamento seguro****Recomendações sobre manuseamento seguro**

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Condições de armazenagem segura, incluindo eventuais incompatibilidades**Medidas técnicas/Condições de armazenamento**

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Utilizações finais específicas**Outras Orientações**

Não existe informação disponível.

SECÇÃO 8: Controlo da exposição/Proteção individual**8.1 Parâmetros de controlo****Limites de exposição**

OELs have not been fully established

Nome Químico	União Europeia	O Reino Unido	França	Espanha	Alemanha
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Nome Químico	Áustria	Suíça	Polónia	Noruega	Irlanda
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Nível Derivado de Exposição sem Efeitos (DNEL) Não existe informação disponível

Concentração Previsivelmente Sem efeitos (PNEC) Não existe informação disponível

8.2 Controlo da exposição**Medidas Técnicas**

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials.

Ensure adequate ventilation, especially in confined areas.

Equipamento de proteção individual

Proteção Ocular

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Proteção das Mãos

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Proteção da pele e do corpo Proteção respiratória

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Outro Equipamento de Proteção

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Medidas de higiene

Manusear de acordo com as boas práticas de higiene e segurança industrial.

Controlo da Exposição Ambiental

Não existe informação disponível.

SECÇÃO 9: Propriedades físico-químicas

9.1 Informações sobre propriedades físicas e químicas de base

Estado físico	Sólido	Odor	Inodoro
Aspeto	granular crystal	Limiar olfativo	Sem dados disponíveis
Cor	branco		
Propriedade	Valores	Observações • Método	
pH		Sem dados disponíveis	
Ponto de fusão / ponto de congelação		Sem dados disponíveis	
Ponto de ebulição/intervalo de ebulição	470 °C	Não existe informação disponível	
Ponto de Inflamação	924 °C	Não existe informação disponível	
Taxa de evaporação		Sem dados disponíveis	
Inflamabilidade (sólido, gás)		Sem dados disponíveis	
Limite de Inflamabilidade na Atmosfera		Sem dados disponíveis	
Limite superior de inflamabilidade:			
Limite inferior de inflamabilidade			
Pressão de vapor		Sem dados disponíveis	
Densidade de vapor		Sem dados disponíveis	
Gravidade Específica		Sem dados disponíveis	
Solubilidade em água	10% @ 25°C		
Solubilidade(s)		Sem dados disponíveis	
Coefficiente de partição		Sem dados disponíveis	
Temperatura de autoignição		Sem dados disponíveis	
Temperatura de decomposição		Sem dados disponíveis	
Viscosidade cinemática		Sem dados disponíveis	
Viscosidade dinâmica			
Propriedades explosivas	Sem dados disponíveis		
Propriedades Comburentes	Sem dados disponíveis		

9.2 Outras informações

Ponto de amolecimento	Não existe informação disponível
Massa molecular	Não existe informação disponível
Conteúdo COV (compostos orgânicos voláteis) (%)	Sem dados disponíveis
Densidade do Líquido	14 (1.0 N Solution)

Densidade aparente Não existe informação disponível

SECÇÃO 10: Estabilidade e reatividade

10.1 Reatividade

Nenhuma reacção perigosa nas condições normais de utilização.

10.2 Estabilidade química

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Possibilidade de reacções perigosas

Reacções Perigosas

Nenhum conhecido.

10.4 Condições a Evitar

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Materiais Incompatíveis

Agentes comburentes fortes. Ácidos fortes. Alumínio. Tin. Zinc.

10.6 Produtos de decomposição perigosos

Hydrogen.

SECÇÃO 11: Informação toxicológica

11.1 Informações sobre os efeitos toxicológicos

Toxicidade aguda

Informações sobre o Produto

Inalação	Pode provocar irritação das vias respiratórias.
Contacto com os olhos	Provoca lesões oculares graves.
Contacto com a pele	Causes severe skin burns.
Ingestão	Nocivo por ingestão.
Toxicidade aguda	Oral: Harmful if swallowed.

Inalação

Nome Químico	DL50 oral	DL50 cutânea	CL50 Inalação
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Corrosão/irritação cutânea	Causes severe skin burns.
Dano/irritação do olho	Provoca lesões oculares graves.
Sensibilização	Não classificado.
Mutagenicidade em Células Germinativas	Não classificado.

Carcinogenicidade	Não classificado.
Toxicidade reprodutiva	Não classificado.
Toxicidade para órgãos-alvo específicos - exposição única	Não classificado.
Toxicidade para órgãos-alvo específicos - exposição repetida	Não classificado.
Perigo de aspiração	Não classificado.

SECÇÃO 12: Informação ecológica

12.1 Toxicidade

Efeitos de ecotoxicidade Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Nome Químico	Algas/plantas aquáticas	Peixe	Crustáceos
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistência e degradabilidade

No additional information available.

12.3 Potencial de bioacumulação

No additional information available.

12.4 Mobilidade no solo

Mobilidade

No additional information available.

12.5 Resultados da avaliação PBT e mPmB

No additional information available.

12.6 Outros efeitos adversos.

No additional information available

SECÇÃO 13: Considerações relativas à eliminação

13.1 Métodos de tratamento de resíduos

Resíduos de desperdícios/produto não utilizado Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Embalagem contaminada Dispose in a safe manner in accordance with local/national regulations.

SECÇÃO 14: Informações relativas ao transporte

IATA

14.1. No. UN/ID	UN2860
14.2. Nome Técnico	Lithium hydroxide
14.3. Classes de perigo para efeitos de transporte	8
14.4. Grupo de embalagem	II
Descrição	Medium Danger
14.5. Código ERG	154
14.6.	

SECÇÃO 15: Informação sobre regulamentação

15.1 Regulamentação/legislação específica para a substância ou mistura em matéria de saúde, segurança e ambiente**Inventários Internacionais**

TSCA	Conforme
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECS	-
AICS	-
KECL	-

Legenda

TSCA - Lei de controlo de Substâncias Tóxicas dos Estados Unidos (United States Toxic Substances Control Act) Secção 8(b) Inventário
EINECS/ELINCS - Inventário Europeu das Substâncias Químicas Existentes no Mercado/Lista Europeia de Substâncias Químicas Notificadas
DSL/NDSL - Lista de Substâncias Domésticas/Lista de Substâncias Não-Domésticas do Canadá
PICCS - Inventário Filipino de Produtos e Substâncias Químicas
ENCS - Substâncias Químicas Existentes e Novas do Japão
IECSC - Inventário Chinês das Substâncias Químicas Existentes
AICS - Inventário de Substâncias Químicas da Austrália (Australian Inventory of Chemical Substances)
KECL - Substâncias Químicas Existentes e Avaliadas na Coreia do Sul

15.2 Relatório de Segurança Química

Não existe informação disponível

SECÇÃO 16: Outras informações

H302 - Nocivo por ingestão

H314 - Provoca queimaduras na pele e lesões oculares graves

Data de Emissão 16-mar-2022

Data da Revisão 16-mar-2022

Nota de Revisão Não aplicável.

Esta ficha de dados de segurança está em conformidade com os requisitos do Regulamento (CE) n.º 1907/2006

Exoneração de responsabilidade

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

SECȚIUNEA 1: Identificarea substanței/amestecului și a societății/întreprinderii**1.1 Element de identificare a produsului**

Cod produs 002213
Denumire produs BreathTek™ CO₂ Trapping Cartridge

1.2 Utilizări relevante identificate ale substanței sau amestecului și utilizări contraindicate

Utilizare Recomandată 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Detalii privind furnizorul fișei cu date de securitate**Fabricant**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Pentru informații suplimentare, vă rugăm să contactați:

Adresa de e-mail www.meridianbioscience.com

1.4 Număr de telefon care poate fi apelat în caz de urgență

Telefon care poate fi apelat în caz de urgență Linie telefonică de urgență

SECȚIUNEA 2: Identificarea pericolelor**2.1 Clasificarea substanței sau a amestecului****REGULAMENTUL (CE) NR. 1272/2008**

Toxicitate acută - orală	Categoria 4
Corodarea/iritarea pielii	Categoria 1 B

2.2 Elemente pentru etichetă

Cuvânt de avertizare

Pericol

Fraze de pericol

H302 - Nociv în caz de înghițire

H314 - Provoacă arsuri grave ale pielii și lezarea ochilor

Fraze de precauție - UE (§28, 1272/2008)

P260 - Nu inspirați praful

P264 - Spălați-vă fața, mâinile și orice suprafață de piele expusă bine după utilizare

P270 - A nu mânca, bea sau fuma în timpul utilizării produsului

P280 - Purtați mănuși de protecție/ îmbrăcăminte de protecție/ echipament de protecție a ochilor/ echipament de protecție a feței.

P301 + P312 - ÎN CAZ DE ÎNGHIȚIRE: sunați la un CENTRU DE INFORMARE TOXICOLOGICĂ sau un medic, dacă nu vă simțiți bine

P301 + P330 + P331 - ÎN CAZ DE ÎNGHIȚIRE: Clătiți gura. NU provocați vomă

P302 + P352 - ÎN CAZ DE CONTACT CU PIELEA: spălați cu multă apă și săpun

P303 + P361 + P353 - ÎN CAZ DE CONTACT CU PIELEA (sau părul): scoateți imediat toată îmbrăcăminte contaminată. Clătiți pielea cu apă/ faceți duș.

P304 + P340 - ÎN CAZ DE INHALARE: transportați victima la aer liber și mențineți-o în stare de repaus, într-o poziție confortabilă pentru respirație

P305 + P351 + P338 - ÎN CAZ DE CONTACT CU OCHII: Clătiți cu atenție cu apă timp de mai multe minute. Scoateți lentilele de contact, dacă este cazul și dacă acest lucru se poate face cu ușurință. Continuați să clătiți

P310 - Sunați imediat la un CENTRU DE INFORMARE TOXICOLOGICĂ sau un medic

P321 - Tratament specific (a se vedea instrucțiunile suplimentare privind primul ajutor de pe această etichetă)

P330 - Clătiți gura

P363 - Spălați îmbrăcăminte contaminată, înainte de reutilizare

P405 - A se depozita sub cheie

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Alte informații**SECȚIUNEA 3: Compoziție/informații privind componentii****3.1 Substanțe****3.2 Amestecuri**

Denumire Chimică	Nr.CE	Nr. CAS	Greutate-%	Clasificare conform Regulamentului (CE) nr. 1272/2008 [CLP]	Număr de înregistrare REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	Nu există date disponibile	nu există date disponibile

Pentru textul complet al acestor fraze H menționate în această secțiune, se va consulta Secțiunea 16

SECȚIUNEA 4: Măsuri de prim ajutor**4.1 Descrierea măsurilor de prim ajutor****Sfaturi generale**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Contact cu ochii

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Contact cu pielea	IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.
Ingerare	IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
Inhalare	IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Cele mai importante simptome și efecte, atât acute, cât și întârziate

Simptome principale	Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.
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4.3 Indicații privind orice fel de asistență medicală imediată și tratamentele speciale necesare

Note pentru medic	Tratați simptomatic.
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SECȚIUNEA 5: Măsurile de combatere a incendiilor

5.1 Mijloace de stingere a incendiilor

Mijloace de Stingere Corespunzătoare

Pulverizare de apă, Bioxid de carbon (CO₂), Spumă, Substanță chimică uscată.

Mijloacelor de stingere care nu trebuie utilizate din motive de siguranță

No additional information available.

5.2 Pericole speciale cauzate de substanța sau amestecul în cauză

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Recomandări destinate pompierilor

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

SECȚIUNEA 6: Măsurile de luat în caz de dispersie accidentală

6.1 Precauții personale, echipament de protecție și proceduri de urgență

Evacuați zona. Ventilați zona. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Recomandări pentru personalul care intervine în situații de urgență

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in

case of emergency.

6.2 Precauții pentru mediul înconjurător

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Metode și material pentru izolarea incendiilor și pentru curățenie

Metode pentru izolare

Evitați formarea de praf. Contain and collect as any solid.

Metode pentru curățenie

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Trimiteri către alte secțiuni

See Sections 8 and 13.

SECȚIUNEA 7: Manipularea și depozitarea

7.1 Precauții pentru manipularea în condiții de securitate

Recomandări pentru manipularea în condiții de securitate

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Condiții de depozitare în condiții de securitate, inclusiv eventuale incompatibilități

Măsurile tehnice/Condiții de depozitare

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Utilizare finală specifică (utilizări finale specifice)

Alte recomandări

Nu există informații disponibile.

SECȚIUNEA 8: Controale ale expunerii/protecția personală

8.1 Parametri de control

Limite de expunere

OELs have not been fully established

Denumire Chimică	Uniunea Europeană	Marea Britanie	Franța	Spania	Germania
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Denumire Chimică	Austria	Elveția	Polonia	Norvegia	Irlanda
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Nivelul calculat fără efect (DNEL) Nu există informații disponibile

Concentrație Predictibilă Fără Efect (PNEC) Nu există informații disponibile

8.2 Controale ale expunerii

Măsurile industriale

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials.

Ensure adequate ventilation, especially in confined areas.

Echipament personal de protecție

Protecția Ochilor

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Protecția Mâinilor

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Protecția pielii și a corpului Protecția respirației

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Alt echipament de protecție

Gloves. Wear chemical goggles and face shield combination. Protective clothing.

Măsuri de igienă

A se manipula în conformitate cu practicile de igienă industrială și de siguranță.

Controlul expunerii mediului

Nu există informații disponibile.

SECȚIUNEA 9: Proprietățile fizice și chimice

9.1 Informații privind proprietățile fizice și chimice de bază

Stare fizică	Solid	Miros	Inodor
Aspect	granular crystal	Pragul de acceptare a mirosului	Nu există date disponibile
Culoare	alb		

Proprietate

Valori

Observații • Metodă

pH		Nu există date disponibile
Punctul de topire / punctul de înghețare		Nu există date disponibile
Temperatură de fierbere/interval de temperatură de fierbere	470 °C	Nu există informații disponibile
Punct de Aprindere	924 °C	Nu există informații disponibile
Viteza de evaporare		Nu există date disponibile
Inflamabilitatea (solid, gaz)		Nu există date disponibile
Limită de Inflamabilitate în Aer		Nu există date disponibile
Limită superioară de inflamabilitate:		
Limită inferioară de inflamabilitate		
Presiunea de vapori		Nu există date disponibile
Densitatea vaporilor		Nu există date disponibile
Greutate Specifică		Nu există date disponibile
Solubilitate în apă	10% @ 25°C	
Solubilitatea (solubilitățile)		Nu există date disponibile
Coefficient de partiție		Nu există date disponibile
Temperatura de autoaprindere		Nu există date disponibile
Temperatura de descompunere		Nu există date disponibile
Vâscozitate cinematică		Nu există date disponibile
Vâscozitate dinamică		Nu există date disponibile
Proprietăți explozive	Nu există date disponibile	
Proprietăți oxidante	Nu există date disponibile	

9.2 Alte informații

Punct de înmuiere	Nu există informații disponibile
Greutate moleculară	Nu există informații disponibile
Conținutul în substanțe organice volatile (%)	Nu există date disponibile
Densitate lichid	14 (1.0 N Solution)

Densitate în vrac Nu există informații disponibile

SECȚIUNEA 10: Stabilitate și reactivitate

10.1 Reactivitate

Nu se conoaște nici o reacție periculoasă în condiții normale de folosire.

10.2 Stabilitate chimică

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Posibilitatea de reacții periculoase

Reacții periculoase

Niciuna cunoscută.

10.4 Condiții de Evitat

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Materiale Incompatibile

Agenți oxidanți puternici. Acizi tari. Aluminiu. Tin. Zinc.

10.6 Prođuși de descompunere periculoși

Hydrogen.

SECȚIUNEA 11: Informații toxicologice

11.1 Informații privind efectele toxicologice

Toxicitate acută

Informații privind produsul

Inhalare	Poate provoca iritația tractului respirator.
Contact cu ochii	Provoacă leziuni oculare grave.
Contact cu pielea	Causes severe skin burns.
Ingerare	Nociv în caz de înghițire.
Toxicitate acută	Oral: Harmful if swallowed.

Inhalare

Denumire Chimică	LD50 oral	LD50 cutanat	LC50 Inhalare
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Corodarea/iritarea pielii Causes severe skin burns.

Lezarea ochilor/iritație Provoacă leziuni oculare grave.

Sensibilizare Neclasificat.

Mutagenitatea Celulelor Germinative Neclasificat.

Carcinogenitate	Neclasificat.
Toxicitate pentru reproducere	Neclasificat.
Toxicitate asupra unui organ țintă specific - o singură expunere	Neclasificat.
Toxicitate asupra unui organ țintă specific - expunere repetată	Neclasificat.
Pericol prin aspirare	Neclasificat.

SECȚIUNEA 12: Informații ecologice

12.1 Toxicitate

Efecte de ecotoxicitate Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Denumire Chimică	Alge/plante acvatice	Pește	Crustacee
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistență și degradabilitate

No additional information available.

12.3 Potențial de bioacumulare

No additional information available.

12.4 Mobilitate în sol

Mobilitate

No additional information available.

12.5 Rezultatele evaluării PBT și vPvB

No additional information available.

12.6 Alte efecte adverse.

No additional information available

SECȚIUNEA 13: Considerații privind eliminarea

13.1 Metode de tratare a deșeurilor

Deșeuri provenind de la reziduuri / produse neutilizate Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Ambalaje contaminate Dispose in a safe manner in accordance with local/national regulations.

SECȚIUNEA 14: Informații referitoare la transport

IATA

14.1. Nr. ONU/ID	UN2860
14.2. Denumire tehnică	Lithium hydroxide
14.3. Clasa (clasele) de pericol pentru transport	8
14.4. Grupa de Ambalare	II
Descriere	Medium Danger
14.5. Codul ERG	154
14.6.	

SECȚIUNEA 15: Informații de reglementare

15.1 Regulamente/legislație în domeniul securității, sănătății și al mediului specifice (specifică) pentru substanța sau amestecul în cauză

Inventare Internaționale

TSCA	Este conform
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legendă

TSCA - Legea pentru Controlul Substanțelor Toxice în Statele Unite ale Americii, Secțiunea 8(b) Inventar
 EINECS/ELINCS - Inventarul european al substanțelor chimice existente introduse pe piață /Lista europeană a substanțelor chimice notificate
 DSL/NDSL - Lista Substanțelor Indigene din Canada/Lista Substanțelor Neindigene din Canada
 PICCS - Inventarul Chimicalelor și Substanțelor Chimice din Filipine
 ENCS - Substanțele Chimice Existente și Noi din Japonia
 IECSC - Inventarul Substanțelor Chimice Existente în China
 AICS - Inventarul Australian al Substanțelor Chimice (Australian Inventory of Chemical Substances)
 KECL - Substanțele Chimice Existente și Evaluate în Coreea

15.2 Raport privind Securitatea Chimică

Nu există informații disponibile

SECȚIUNEA 16: Alte informații

H302 - Nociv în caz de înghițire
 H314 - Provoacă arsuri grave ale pielii și lezarea ochilor

Data Publicării	16-mar.-2022
Data revizuirii	16-mar.-2022
Notă de Revizie	Nu se aplică.

Această fișă cu date de securitate a materialului este conformă cu prevederile Regulamentului (CE) Nr. 1907/2006

Clauză de exonerare

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

ODDELEK 1: Identifikacija snovi/zmesi in družbe/podjetja**1.1 Identifikator izdelka**

Oznaka proizvoda 002213
Ime izdelka BreathTek™ CO₂ Trapping Cartridge

1.2 Pomembne identificirane uporabe snovi ali zmesi in odsvetovane uporabe

Priporočena uporaba 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Podrobnosti o dobavitelju varnostnega lista**Proizvajalec**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Za dodatne informacije se obrnite na:

Elektronski poštni naslov www.meridianbioscience.com

1.4 Telefonska številka za nujne primere

Telefon za klic v sili Telefon za klic v sili

ODDELEK 2: Določitev nevarnosti**2.1 Klasifikacija snovi ali mešanice****UREDBA (ES) št. 1272/2008**

Akutna strupenost - oralno	Kategorija 4
Razjedanje/draženje kože	Kategorija 1 B

2.2 Elementi oznake**Opozorilna beseda**

Nevarno

Izjave o nevarnosti

H302 - Zdravju škodljivo pri zaužitju

H314 - Povzroča hude opekline kože in poškodbe oči

varnostne izjave - EU (§28, 1272/2008)

P260 - Ne vdihavati prahu

P264 - Po uporabi temeljito umiti obraz, roke in izpostavljeno kožo

P270 - Ne jesti, piti ali kaditi med uporabo tega izdelka

P280 - Nositi zaščitne rokavice/ zaščitno obleko/ zaščito za oči/ zaščito za obraz.

P301 + P312 - PRI ZAUŽITJU: ob slabem počutju pokličite CENTER ZA ZASTRUPITVE ali zdravnika

P301 + P330 + P331 - PRI ZAUŽITJU: Izprati usta. NE izzvati bruhanja

P302 + P352 - PRI STIKU S KOŽO: umiti z veliko mila in vode

P303 + P361 + P353 - PRI STIKU S KOŽO (ali lasmi): takoj odstraniti/ sleči vsa kontaminirana oblačila. Izprati kožo z vodo/ prho.

P304 + P340 - PRI VDIHAVANJU: prenesti žrtev na svež zrak in jo pustiti počivati v položaju, ki olajša dihanje

P305 + P351 + P338 - PRI STIKU Z OČMI: Previdno izpirati z vodo nekaj minut. Odstranite kontaktne leče, če jih imate in če to

lahko storite brez težav. Nadaljujte z izpiranjem

P310 - Takoj pokličite CENTER ZA ZASTRUPITVE ali zdravnika

P321 - Posebno zdravljenje (glejte dopolnilne navodila za prvo pomoč na tej etiketi)

P330 - Izprati usta

P363 - Kontaminirana oblačila oprati pred ponovno uporabo

P405 - Hraniti zaklenjeno

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Drugi podatki

ODDELEK 3: Sestava/podatki o sestavinah

3.1 Snovi

3.2 Zmesi

Ime kemikalije	ES-št	Št. CAS	Masni %	Razvrstitev v skladu z Uredbo (ES) št 1272/2008 [CLP]	Registracijska številka REACH
Lithium Hydroxide	Present	1310-65-2	60 - 100	Ni dostopnih podatkov	ni dostopnih podatkov

Za celotno besedilo H-izjav, omenjeno v tem poglavju, glej 16. poglavje

ODDELEK 4: Ukrepi za prvo pomoč

4.1 Opis ukrepov za prvo pomoč

Splošen nasvet

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Stik z očmi

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Stik s kožo

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Zaužitje

IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

VDIHAVANJE IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Najbolj pomembni simptomi in učinki, tako akutni kot kasni

Glavni simptomi Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Navedba kakršne koli takojšnje medicinske oskrbe in posebnega zdravljenja

Pripombe za zdravnika Zdraviti simptomatiko.

ODDELEK 5: Protipožarni ukrepi

5.1 sredstva za gašenje

Ustrezna sredstva za gašenje

Vodni prš, Ogljikov dioksid (CO₂), Pena, Suha kemikalija.

Sredstva za gašenje, ki se ga ne sme uporabiti zaradi varnostnih razlogov

No additional information available.

5.2 Posebne nevarnosti v zvezi s snovjo ali zmesjo

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Nasvet za gasilce

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

ODDELEK 6: Ukrepi ob nenamernih izpustih

6.1 Osebni varnostni ukrepi, zaščitna oprema in postopki v sili

Izprazniti območje. Področje prezračiti. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Nasvet za reševalce

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Okoljevarstveni ukrepi

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Metode in materiali za zadrževanje in čiščenje**Metode zadrževanja**

Izogibati se nastajanju prahu. Contain and collect as any solid.

Metode za čiščenje

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Sklicevanje na druge oddelke

See Sections 8 and 13.

ODDELEK 7: Ravnanje in skladiščenje**7.1 Varnostni ukrepi za varno ravnanje****Nasvet za varno rokovanje**

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Pogoji za varno skladiščenje, vključno z nezdružljivostjo**Tehnične mere/Pogoji pri shranjevanju/skladiščenju**

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Posebne končne uporabe**Druge smernice**

Podatkov ni na voljo.

ODDELEK 8: Nadzor izpostavljenosti/osebna zaščita**8.1 Kontrolni parametri****Meje izpostavljenosti**

OELs have not been fully established

Ime kemikalije	Evropska unija	Združeno Kraljestvo (UK)	Francija	Španija	Nemčija
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Ime kemikalije	Avstrija	Švica	Poljska	Norveška	Irska
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Izpeljana vrednost brez učinka (DNEL)

Podatkov ni na voljo

Predvidena Koncentracija Brez Učinka (PNEC)

Podatkov ni na voljo

8.2 Nadzor izpostavljenosti**Inženirski ukrepi**

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

**Osebna zaščitna oprema
Zaščita za oči**

Wear eye protection, including chemical splash shield goggles and a face shield when

Zaščita za roke	possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination. Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Zaščita kože in telesa Zaščita dihal	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Druga zaščitna oprema	Gloves. Wear chemical goggles and face shield combination. Protective clothing.
Higienski ukrepi	Ravnajte v skladu z dobro industrijsko prakso, kar se higijene in varnosti tiče.
Kontrole izpostavljenosti okolja	Podatkov ni na voljo.

ODDELEK 9: Fizikalne in kemijske lastnosti

9.1 Podatki o osnovnih fizikalnih in kemijskih lastnostih

Agregatno stanje	Trdna snov	Vonj	brez vonja
Videz	granular crystal	Prag za vonj	Ni dostopnih podatkov
Barva	bela		
Lastnost	Vrednosti	Opombe • Metoda	
pH		Ni dostopnih podatkov	
Tališče / zmrzišče		Ni dostopnih podatkov	
Točka vrelišča/območje vrelišča	470 °C	Podatkov ni na voljo	
Plamenišče	924 °C	Podatkov ni na voljo	
Hitrost izparevanja		Ni dostopnih podatkov	
Vnetljivost (trdna snov, plin)		Ni dostopnih podatkov	
Meje vnetljivosti v zraku		Ni dostopnih podatkov	
Zgornja meja vnetljivosti:			
Spodnja meja vnetljivosti			
Parni tlak		Ni dostopnih podatkov	
Parna gostota		Ni dostopnih podatkov	
Specifična teža		Ni dostopnih podatkov	
Topnost v vodi:	10% @ 25°C		
Topnost(i)		Ni dostopnih podatkov	
Porazdelitveni koeficient:		Ni dostopnih podatkov	
Temperatura samovžiga		Ni dostopnih podatkov	
Temperatura razpada		Ni dostopnih podatkov	
Kinematična viskoznost		Ni dostopnih podatkov	
Dinamična viskoznost			
Eksplozivne lastnosti	Ni dostopnih podatkov		
Oksidacijske lastnosti	Ni dostopnih podatkov		

9.2 Drugi podatki

Točka mehčanja	Podatkov ni na voljo
Molekulska masa	Podatkov ni na voljo
Obsah prchavých organických látok (%)	Ni dostopnih podatkov
Gostota tekočine	14 (1.0 N Solution)
Gostota	Podatkov ni na voljo

ODDELEK 10: Obstožnost in reaktivnost

10.1 reaktivnost

Nevarne reakcije pri normalni uporabi niso znane.

10.2 Kemična stabilnost

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Možnost poteka nevarnih reakcij

Nevarne reakcije

Ni znano.

10.4 Pogoji, ki se jim je treba izogniti

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Nezdružljive snovi

Močni oksidanti. Močne kisline. Aluminij. Tin. Zinc.

10.6 Nevarni razpadni produkti

Hydrogen.

ODDELEK 11: Toksikološki podatki

11.1 Podatki o toksikoloških učinkih

Akutna toksičnost

podatek o izdelku

VDIHAVANJE	Lahko povzroča razdraženost dihal.
Stik z očmi	Povzroča hude poškodbe oči.
Stik s kožo	Causes severe skin burns.
Zaužitje	Zdravju škodljivo pri zaužitju.
Akutna toksičnost	Oral: Harmful if swallowed.

VDIHAVANJE

Ime kemikalije	Oralna SD50	SD50 kožno	LC50 za vdihavanje
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Razjedanje/draženje kože	Causes severe skin burns.
Okvare oči/draženje	Povzroča hude poškodbe oči.
Senzitizacija	Ni razvrščeno.
Mutagenost za zarodne celice	Ni razvrščeno.
Rakotvornost	Ni razvrščeno.
Strupenost za razmnoževanje	Ni razvrščeno.
Specifična strupenost za ciljne organe - enkratna izpostavljenost	Ni razvrščeno.
Specifična strupenost za ciljne organe - ponavljajoča	Ni razvrščeno.

izpostavljenost

Nevarnost vdih Ni razvrščeno.

ODDELEK 12: Ekološki podatki

12.1 Toksičnost

Ekotoksični učinki Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Ime kemikalije	Alge/vodne rastline	Riba	Raki (Crustacea)
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Obstočnost in razgradljivost

No additional information available.

12.3 Zmožnost kopičenja v organizmih

No additional information available.

12.4 Mobilnost v tleh**Mobilnost**

No additional information available.

12.5 Rezultati ocene PBT in vPvB

No additional information available.

12.6 Drugi škodljivi vplivi.

No additional information available

ODDELEK 13: Odstranjevanje

13.1 Metode ravnanja z odpadki

Odpadki iz ostankov / presežnih (neporabljenih) proizvodov Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Kontaminirana embalaža Dispose in a safe manner in accordance with local/national regulations.

ODDELEK 14: Podatki o prevozu

IATA

14.1. UN/ID št	UN2860
14.2. Tehnično ime	Lithium hydroxide
14.3. Razredi nevarnosti prevoza	8
14.4. Skupina Embalaže	II
Opis	Medium Danger
14.5. ERG koda	154
14.6.	

ODDELEK 15: Zakonsko predpisani podatki**15.1 Predpisi/zakonodaja o zdravju, varnosti in okolju, specifični za snov ali zmes**

Mednarodni popisi

TSCA	Ustreza
EINECS/ELINCS	-
DSL/NDL	-
PICCS:	-
ENCS	-
IECSC	-
AICS:	-
KECL	-

Legenda

- TSCA - Zakon ZDA o kontroli strupenih snovi, Oddelek 8(b) Popis
EINECS/ELINCS - Evropski seznam obstoječih kemičnih snovi, ki so na trgu/Evropski seznam novih snovi
DSL/NDL - Kanadski seznam domačih snovi/seznam tujih snovi
PICCS - Filipinski seznam kemikalij in kemičnih snovi
ENCS - Japonske obstoječe in nove kemične snovi
IECSC - Kitajski seznam obstoječih kemičnih snovi
AICS - Avstralski Seznam Kemičnih Snovi (Australian Inventory of Chemical Substances)
KECL - Korejske obstoječe in ocenjene kemične snovi

15.2 Poročilo o kemijski varnosti

Podatkov ni na voljo

ODDELEK 16: Drugi podatki

H302 - Zdravju škodljivo pri zaužitju
H314 - Povzroča hude opekline kože in poškodbe oči

Datum izdaje	16-mar.-2022
Datum dopolnjene izdaje	16-mar.-2022
Opomba o reviziji	Se ne uporablja.

Ta varnostni list je v skladu z zahtevami Uredbe (ES) št 1907/2006

Demanti

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

AVSNITT 1: Namnet på ämnet/blandningen och bolaget/företaget**1.1 Produktbeteckning**

Produktkod 002213
Produktnamn BreathTek™ CO₂ Trapping Cartridge

1.2 Relevanta identifierade användningar av ämnet eller blandningen och användningar som det avråds från

Rekommenderat bruk 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Närmare upplysningar om den som tillhandahåller säkerhetsdatablad**Tillverkare**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

För mer information kan du kontakta:

E-postadress www.meridianbioscience.com

1.4 Telefonnummer för nödsituationer

Telefonnummer för nödsituationer Telefonnummer för nödsituationer

AVSNITT 2: Farliga egenskaper**2.1 Klassificering av ämnet eller blandningen****FÖRORDNING (EG) nr 1272/2008**

Akut toxicitet, oral	Kategori 4
Frätande/irriterande på huden	Kategori 1 B

2.2 Märkningsuppgifter**Signalord**

Fara

Faroangivelser

H302 - Skadligt vid förtäring

H314 - Orsakar allvarliga frätskador på hud och ögon

Skyddsangivelser - EU (§28, 1272/2008)

P260 - Inandas inte damm

P264 - Tvätta ansiktet, händerna och exponerad hud grundligt efter användning

P270 - Ät inte, drick inte och rök inte när du använder produkten

P280 - Använd skyddshandskar/ skyddskläder/ ögonskydd/ ansiktsskydd.

P301 + P312 - VID FÖRTÄRING: Kontakta GIFTINFORMATIONSCENTRAL eller läkare om du mår dåligt

P301 + P330 + P331 - VID FÖRTÄRING: Skölj munnen. Framkalla INTE kräkning

P302 + P352 - VID HUDKONTAKT: Tvätta med mycket tvål och vatten

P303 + P361 + P353 - VID HUDKONTAKT (även håret): Ta omedelbart av alla nedstänkta kläder. Skölj huden med vatten/ duscha.

P304 + P340 - VID INANDNING: Flytta personen till frisk luft och se till att han eller hon vilar i en ställning som underlättar andningen

P305 + P351 + P338 - VID KONTAKT MED ÖGONEN: Skölj försiktigt med vatten i flera minuter. Ta ur eventuella kontaktlinser om det går lätt. Fortsätt att skölja

P310 - Kontakta genast GIFTINFORMATIONSCENTRAL eller läkare

P321 - Särskild behandling (se kompletterande instruktioner om första hjälpen på etiketten)

P330 - Skölj munnen

P363 - Nedstänkta kläder ska tvättas innan de används igen

P405 - Förvaras inlåst

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Annan information**AVSNITT 3: Sammansättning/information om beståndsdelar****3.1 Ämnen****3.2 Blandningar**

Kemiskt Namn	EG-nr	CAS-nr	Vikt-%	Klassificering enligt förordningen (EG) nr 1272/2008 [CLP]	REACH-registreringsnummer
Lithium Hydroxide	Present	1310-65-2	60 - 100	Inga data tillgängliga	inga data tillgängliga

För den utförliga texten för H-fraserna nämnda i detta avsnitt, se avsnitt 16

AVSNITT 4: Åtgärder vid första hjälpen**4.1 Beskrivning av åtgärder vid första hjälpen****Allmänna råd**

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Ögonkontakt

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Hudkontakt

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Förtäring

IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from

poison control center. Get medical attention if you feel unwell.

Inandning

IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 viktigaste symptomen och effekterna, både akuta och fördröjda**Huvudsymptom**

Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Angivande av omedelbar medicinsk behandling och särskild behandling som eventuellt krävs**Upplysning till läkaren**

Behandla enligt symptom.

AVSNITT 5: Brandbekämpningsåtgärder**5.1 Släckmedel****Lämpligt släckningsmedel**

Vattenspray, Koldioxid (CO₂), Skum, Torr kemikalie.

Släckmedel som inte får användas av säkerhetsskäl

No additional information available.

5.2 Särskilda faror som ämnet eller blandningen kan medföra

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Råd till brandbekämpningspersonal

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

AVSNITT 6: Åtgärder vid oavsiktliga utsläpp**6.1 Personliga skyddsåtgärder, skyddsutrustning och åtgärder vid nödsituationer**

Utrym området. Ventilera området. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Råd för räddningspersonal

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Miljöskyddsåtgärder

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Metoder och material för inneslutning och sanering

Inneslutningsmetoder

Undvik dammbildning. Contain and collect as any solid.

Rengöringsmetoder

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Hänvisning till andra avsnitt

See Sections 8 and 13.

AVSNITT 7: Hantering och lagring

7.1 Skyddsåtgärder för säker hantering

Råd om säker hantering

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Förhållanden för säker lagring, inklusive eventuell oförenlighet

Tekniska åtgärder/lagringsförhållanden

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Specifik slutanvändning

Övriga anvisningar

Ingen information tillgänglig.

AVSNITT 8: Begränsning av exponeringen/personligt skydd

8.1 Kontrollparametrar

Exponeringsgränser

OELs have not been fully established

Kemiskt Namn	Europeiska unionen	Storbritannien	Frankrike	Spanien	Tyskland
Lithium Hydroxide 1310-65-2		STEL: 1 mg/m ³			
Kemiskt Namn	Österrike	Schweiz	Polen	Norge	Irland
Lithium Hydroxide 1310-65-2					STEL: 1 mg/m ³

Härledd nolleffektnivå (DNEL) Ingen information tillgänglig

Uppskattad nolleffektkoncentration (PNEC) Ingen information tillgänglig

8.2 Begränsning av exponeringen

Tekniska åtgärder

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personlig skyddsutrustning

Ögonskydd

Wear eye protection, including chemical splash shield goggles and a face shield when

Handskydd	possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination. Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Hud- och kroppsskydd Andningsskydd	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Annan skyddsutrustning	Gloves. Wear chemical goggles and face shield combination. Protective clothing.
Åtgärder beträffande hygien	Hantera enligt god industrihygienisk praxis och god säkerhetspraxis.
Begränsning av miljöexponeringen	Ingen information tillgänglig.

AVSNITT 9: Fysikaliska och kemiska egenskaper

9.1 Information om grundläggande fysikaliska och kemiska egenskaper

Aggregationstillstånd	Fast	Lukt	Luktfritt
Utseende	granular crystal	Lukttröskel	Inga data tillgängliga
Färg	vit		
Egenskap	Värden	Anmärkningar • Metod	
pH		Inga data tillgängliga	
Smältpunkt / fryspunkt		Inga data tillgängliga	
Kokpunkt/kokpunktsintervall	470 °C	Ingen information tillgänglig	
Flampunkt	924 °C	Ingen information tillgänglig	
Avdunstningshastighet		Inga data tillgängliga	
Brandfarlighet (fast form, gas)		Inga data tillgängliga	
Brännbarhetsgräns i Luft		Inga data tillgängliga	
Övre brännbarhetsgräns:			
Undre brännbarhetsgräns:			
Ångtryck		Inga data tillgängliga	
Ångdensitet		Inga data tillgängliga	
Specifik vikt		Inga data tillgängliga	
Vattenlöslighet	10% @ 25°C		
Löslighet		Inga data tillgängliga	
Fördelningskoefficient		Inga data tillgängliga	
Självtändningstemperatur		Inga data tillgängliga	
Sönderfallstemperatur		Inga data tillgängliga	
Kinematisk viskositet		Inga data tillgängliga	
Dynamisk viskositet			
Explosiva egenskaper	Inga data tillgängliga		
Oxiderande egenskaper	Inga data tillgängliga		

9.2 Annan information

Mjukningspunkt	Ingen information tillgänglig
Molekylvikt	Ingen information tillgänglig
VOC-innehåll (%)	Inga data tillgängliga
Vätskedensitet	14 (1.0 N Solution)
Skrymdensitet	Ingen information tillgänglig

AVSNITT 10: Stabilitet och reaktivitet

10.1 Reaktivitet

Inga farliga reaktioner kända under normala användningsförhållanden.

10.2 Kemisk stabilitet

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Risken för farliga reaktioner

Farliga reaktioner

Ingen känd.

10.4 Förhållanden som ska undvikas

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Oförenliga material

Starka oxiderande ämnen. Starka syror. Aluminium. Tin. Zinc.

10.6 Farliga sönderdelningsprodukter

Hydrogen.

AVSNITT 11: Toxikologisk information

11.1 Information om de toxikologiska effekterna

Akut toxicitet

Produktinformation

Inandning	Kan orsaka irritation i luftvägarna.
Ögonkontakt	Orsakar allvarliga ögonskador.
Hudkontakt	Causes severe skin burns.
Förtäring	Skadligt vid förtäring.
Akut toxicitet	Oral: Harmful if swallowed.

Inandning

Kemiskt Namn	Oral LD50	Dermal LD50	LC50 för inandning
Lithium Hydroxide	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Frätande/irriterande på huden	Causes severe skin burns.
Ögonskada/irritation	Orsakar allvarliga ögonskador.
Sensibilisering	Inte klassificerat.
Mutagenitet i könsceller	Inte klassificerat.
Cancerogenitet	Inte klassificerat.
Reproduktionstoxicitet	Inte klassificerat.
Specifik organtoxicitet - enstaka exponering	Inte klassificerat.
Specifik organtoxicitet - upprepad exponering	Inte klassificerat.

Fara vid aspiration Inte klassificerat.

AVSNITT 12: Ekologisk information

12.1 Toxicitet

Ekotoxicitetseffekter Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Kemiskt Namn	Alger/vattenlevande växter	Fisk	Kräftdjur
Lithium Hydroxide		62.2 mg/l Danio rerio (96h)	

12.2 Persistens och nedbrytbarhet

No additional information available.

12.3 Bioackumuleringsförmåga

No additional information available.

12.4 Rörligheten i jord

Rörlighet

No additional information available.

12.5 Resultat av PBT- och vPvB-bedömningen

No additional information available.

12.6 Andra skadliga effekter.

No additional information available

AVSNITT 13: Avfallshantering

13.1 Avfallsbehandlingsmetoder

Avfall från överskott/oanvända produkter Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Kontaminerad förpackning Dispose in a safe manner in accordance with local/national regulations.

AVSNITT 14: Transportinformation

IATA

14.1. UN/ID-nr	UN2860
14.2. Tekniskt Namn	Lithium hydroxide
14.3. Faroklass för transport	8
14.4. Förpackningsgrupp	II
Beskrivning	Medium Danger
14.5. ERG-kod	154
14.6.	

AVSNITT 15: Gällande föreskrifter

15.1 Föreskrifter/lagstiftning om ämnet eller blandningen när det gäller säkerhet, hälsa och miljö

Internationella Förteckningar

TSCA (Lag om kontroll av giftiga ämnen)	Följer
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Teckenförklaring

- TSCA** - Förenta staternas lag om kontroll av toxiska ämnen Paragraf 8(b) Förteckning
- EINECS/ELINCS** - Europeiska förteckningen över existerande, kommersiellt använda kemiska ämnen/EU-förteckningen över anmälda kemiska ämnen
- DSL/NDSL** - Kanadas förteckning över inhemska ämnen/Förteckning över icke inhemska ämnen
- PICCS** - Filippinernas förteckning över kemikalier och kemiska ämnen
- ENCS** - Japans förteckning över befintliga och nya kemiska ämnen
- IECSC** - Kinas förteckning över befintliga kemiska ämnen
- AICS** - Australiska förteckningen över kemiska ämnen (Australian Inventory of Chemical Substances)
- KECL** - Koreas förteckning över utvärderade kemiska ämnen

15.2 Kemikaliesäkerhetsrapport

Ingen information tillgänglig

AVSNITT 16: Annan information

H302 - Skadligt vid förtäring
H314 - Orsakar allvarliga frätskador på hud och ögon

Utgivningsdatum	16-mar-2022
Revisionsdatum	16-mar-2022
Revideringsanmärkning	Ej tillämpligt.

Det här säkerhetsdatabladet följer förordning (EG) nr 1907/2006

Friskrivningsklausul

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

BÖLÜM 1: Maddenin/karışımın ve şirketin/dağıtıcının kimliği**1.1 Ürün kimliği**

Ürün kodu 002213
Ürün adı BreathTek™ CO₂ Trapping Cartridge

1.2 Maddenin veya karışımın ilgili tanımlanmış kullanımları ve tavsiye edilmeyen kullanımları

Tavsiye Edilen Kullanım 60-70 g 99% pure technical grade lithium hydroxide are contained within the CO₂ trapping cartridge. The cartridge is made to be attached externally to the POCone Spectrophotometer. The cartridge case is manufactured from ABS plastic and is plugged at both ports with Polypropylene Cotton. The cartridge is used as an accessory to the POCone infrared Spectrophotometer. To be attached to the back of the instrument while seated in the cartridge adapter.

1.3 Güvenlik bilgi formu tedarikçisinin detayları**İmalatçı**

Otsuka Electronics co, LTD.
3-26-3, Shodai-Tajika, Hirakata-shi, Osaka, 573-1132, Japan
Phone: +81-72-855-8550

U.S. Distributor:
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Daha fazla bilgi için, lütfen irtibat kurun:

E-posta Adresi www.meridianbioscience.com

1.4 Acil durum telefon numarası

Acil durum telefonu Acil durum telefonu

BÖLÜM 2: Zararlılık tanımlanması**2.1 Maddenin veya karışımın sınıflandırılması****1272/2008 SAYILI TÜZÜĞÜ (AT)**

Akut toksisite - Solunum	Kategori 4
Cilt aşınması/tahrişi	Kategori 1 B

2.2 Etiket unsurları**Uyarı kelimesi**

Tehlike

Zararlılık İfadeleri

H302 - Yutulması halinde zararlıdır

H314 - Ciddi cilt yanıklarına ve göz hasarına yol açar

Önlem İfadeleri - EU (§28, 1272/2008)

P260 - Tozunu solumayın

P264 - Elleçlemeden sonra yüzü, elleri ve maruz kalan cildi iyice yıkayın

P270 - Bu ürünü kullanırken hiçbir şey yemeyin, içmeyin veya sigara içmeyin

P280 - Koruma eldiveni/ koruyucu giysi/ göz koruması/ yüz koruması kullanınız

P301 + P312 - YUTULMASI HALİNDE: Kendinizi iyi hissetmezseniz, ZEHİR MERKEZİ/ doktora başvurunuz

P301 + P330 + P331 - YUTULDUĞUNDA: ağızınızı çalkalayın. İstifra etmeye ÇALIŞMAYIN

P302 + P352 - DERİ İLE TEMAS HALİNDE İSE: Bol sabun ve su ile yıkayın

P303 + P361 + P353 - DERİYE BULAMIŞSA (ya da saçta): Hemen tüm bulaşmış giyisileri çıkarınız. Deriyi suyla yıkayınız

P304 + P340 - SOLUNMASI HALİNDE: Kazazedeyi açık havaya çıkarıp nefes alması kolay bir pozisyonda dinlendiriniz

P305 + P351 + P338 - GÖZ İLE TEMASI HALİNDE: Su ile birkaç dakika dikkatlice durulayın. Takılı ve yapması kolaysa, kontak lensleri çıkartın. Durulamaya devam edin

P310 - Hemen ZEHİR MERKEZİ veya doktora başvurunuz

P321 - Özel müdahale gerekli(bu etiket üzerindeki ilave ilk yardım talimatlarına bakınız)

P330 - Ağızınızı çalkalayın

P363 - Kirlenmiş giysilerinizi yeniden kullanmadan önce yıkayın

P405 - Kilit altında saklayın

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of non-hazardous waste.

2.3 Diğer bilgiler

BÖLÜM 3: Bileşimi/içindekiler hakkında bilgi

3.1 Maddeler

3.2 Karışımlar

Kimyasal İsmi	EC-No	CAS No	Ağırlık-%	(EC) No. 1272/2008 [CLP] Yönergesine uygun sınıflandırma	REACH Kayıt Numarası
Lityum hidroksit	Present	1310-65-2	60 - 100	Mevcut veri yok	mevcut veri yok

Bu bölümde adı geçen H-Bildirimleri tüm metni için 16.Bölüme bakınız

BÖLÜM 4: İlk yardım önlemleri

4.1 Gerekli ilk yardım önlemleri tanımı

Genel tavsiye

If exposed or concerned, get medical attention/advice. Show the safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

Göz teması

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

Cilt teması

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, get medical attention.

Yutma

IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

Soluma IF INHALED: Remove to fresh air and keep at a rest position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

4.2 Hem akut hem gecikmeli en önemli belirtiler ve etkiler

Belli başlı semptomlar Symptoms/injuries: Harmful if swallowed. Causes severe skin burns and eye damage. Symptoms/injuries after inhalation: May cause respiratory irritation. Symptoms/injuries after skin contact: Causes severe skin burns. Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms/injuries after ingestion: Harmful if swallowed.

4.3 Her türlü acil tıbbi müdahale ve özel tedavi ihtiyacı belirtisi

Hekime notlar Semptomatik olarak tedavi edin.

BÖLÜM 5: Yangınla mücadele önlemleri

5.1 Yangın söndürücü maddeler

Uygun Yangın Söndürücü Madde

Su spreyi, Karbon dioksit (CO₂), Köpük, Kuru kimyasal.

Güvenlik sebebiyle kullanılmayacak olan yangın söndürme araçları

No additional information available.

5.2 Madde veya karışımdan kaynaklanan özel zararlar

Fire Hazard: Heating may cause a fire.

Explosion Hazard: Product is not an explosive.

Reactivity: No dangerous reactions known under normal conditions of use.

5.3 Yangın söndürme ekipleri için tavsiye

Precautionary measures fire: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Do not dispose of fire-fighting water in the environment.

Protection during firefighting: Do not enter area without proper protective equipment, including respiratory protection.

Other information: On contact with water, LiOH generates considerable heat.

BÖLÜM 6: Kaza sonucu yayılmaya karşı önlemler

6.1 Kişisel önlemler, koruyucu ekipman ve acil durum prosedürleri

Alanı boşaltın. Ortamı havalandırın. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

Acil durum müdahale görevlileri için tavsiye

Protective equipment: Wear suitable protective clothing, gloves, and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2 Çevresel tedbirler

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3 Çember altına alma ve temizlik için yöntem ve malzemeler**Kapsama Yöntemleri**

Toz oluşumuna mani olun. Contain and collect as any solid.

Temizleme yöntemleri

Sweep or shovel spills into appropriate container for disposal. Rinse residual spill area with plenty of water. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Diğer bölümlere referans

See Sections 8 and 13.

BÖLÜM 7: Elleçleme ve depolama**7.1 Güvenli elleçleme önlemleri****Güvenli elleçleme için tavsiye**

Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Uygun olmayan tüm durumlar da dahil olmak üzere, güvenli saklamayla ilgili koşullar**Teknik kriterler/Depolama koşulları**

Store in a well-ventilated place. Keep container tightly closed. Avoid contact with moisture.

7.3 Özel son kullanımları**Diğer Kılavuzlar**

Bilgi mevcut değil.

BÖLÜM 8: Maruz kalma kontrolleri / kişisel korunma**8.1 Kontrol parametreleri****Maruz kalma limitleri**

OELs have not been fully established

Kimyasal İsmi	Avrupa Birliği	Birleşik Krallık	Fransa	İspanya	Almanya
Lityum hidroksit 1310-65-2		STEL: 1 mg/m ³			
Kimyasal İsmi	Avusturya	İsviçre	Polonya	Norveç	İrlanda
Lityum hidroksit 1310-65-2					STEL: 1 mg/m ³

Türetilmiş Sıfır Etki Düzeyi (DNEL) Bilgi mevcut değil

Öngörülen Etkisiz Konsantrasyon (PNEC) Bilgi mevcut değil

8.2 Maruziyet kontrolleri**Mühendislik Önlemleri**

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Kişisel koruyucu ekipman**Göz Koruması**

Wear eye protection, including chemical splash shield goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Ellerin Korunması	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.
Cildin ve vücudun korunması Solunum koruması	Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Use NIOSH-approved dust/particulate respirator. Where vapor, mist or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
Diğer Koruyucu Ekipman	Gloves. Wear chemical goggles and face shield combination. Protective clothing.
Hijyen ölçütleri	İyi endüstriyel hijyen ve güvenlik uygulamalarına göre elleçleyin.
Çevresel Maruziyet Kontrolleri	Bilgi mevcut değil.

BÖLÜM 9: Fiziksel ve kimyasal özellikler

9.1 Temel fiziksel ve kimyasal özellikler hakkında bilgi

Fiziksel hal	Katı	Koku	Kokusuz
Görünüm	granular crystal	Koku eşiği	Mevcut veri yok
Renk	beyaz		
Özellik	Değerler	Notlar • Yöntem	
pH		Mevcut veri yok	
Erime noktası / donma noktası		Mevcut veri yok	
Kaynama noktası/kaynama ölçeği (aralığı)	470 °C	Bilgi mevcut değil	
Parlama Noktası	924 °C	Bilgi mevcut değil	
Buharlaştırma oranı		Mevcut veri yok	
Alevlenebilirlik (katı, gaz)		Mevcut veri yok	
Havadaki Alevlenebilirlik Limiti		Mevcut veri yok	
Üst alevlenebilirlik limiti:			
Alt alevlenebilirlik limiti:			
Buhar basıncı		Mevcut veri yok	
Buhar yoğunluğu		Mevcut veri yok	
Özgül Ağırlık		Mevcut veri yok	
Suda çözünürlük	10% @ 25°C		
Çözünürlük(ler)		Mevcut veri yok	
Bölüntü katsayısı		Mevcut veri yok	
Kendiliğinden tutuşma sıcaklığı		Mevcut veri yok	
Bozunma sıcaklığı		Mevcut veri yok	
Kinematik viskozite		Mevcut veri yok	
Dinamik viskozite			
Patlayıcı özellikleri	Mevcut veri yok		
Oksitleme Özellikleri	Mevcut veri yok		

9.2 Diğer bilgiler

Yumuşama noktası	Bilgi mevcut değil
Molekül ağırlığı	Bilgi mevcut değil
VOC (Uçucu madde oranı) (%)	Mevcut veri yok
Sıvı Yoğunluğu	14 (1.0 N Solution)
Yığın yoğunluğu	Bilgi mevcut değil

BÖLÜM 10: Kararlılık ve tepkime

10.1 Reaktivite

Normal kullanım şartları altında, tehlikeli bir reaksiyon sözkonusu değildir.

10.2 Kimyasal kararlılık

Stable under recommended handling and storage conditions (see section 7). Substance is hygroscopic.

10.3 Tehlikeli tepkime olasılığı**Zararlı Reaksiyonlar**

Hiçbiri bilinmiyor.

10.4 Kaçınılması Gereken Durumlar

Incompatible materials. Exposure to air, moisture, or heat.

10.5 Geçimsiz Maddeler

Kuvvetli oksitleyici maddeler. Kuvvetli asitler. Alüminyum. Tin. Zinc.

10.6 Zararlı bozunma ürünleri

Hydrogen.

BÖLÜM 11: Toksikolojik bilgiler**11.1 Toksikolojik etkiler ile ilgili bilgiler****Akut toksisite****Ürün Bilgisi**

Soluma	Solunum yolu tahrişine neden olabilir.
Göz teması	Ciddi göz hasarına yol açar.
Cilt teması	Causes severe skin burns.
Yutma	Yutulması halinde zararlıdır.
Akut toksisite	Oral: Harmful if swallowed.

Soluma

Kimyasal İsmi	Oral LD50	Dermal LD50	Soluma LC50
Lityum hidroksit	210 mg/kg (Rat)		960 mg/m ³ (Rat) 4 h

Cilt aşınması/tahrişi	Causes severe skin burns.
Göz hasarı/tahrişi	Ciddi göz hasarına yol açar.
Hassasiyet	Sınıflandırılmamıştır.
Eşey hücre mutajenitesi	Sınıflandırılmamıştır.
Kanserojenite	Sınıflandırılmamıştır.
Üreme toksisitesi	Sınıflandırılmamıştır.
Spesifik hedef organ sistemik zehirlilik -tek maruz kalma	Sınıflandırılmamıştır.
Spesifik hedef organ sistemik zehirliliği - tekrarlanan maruz kalma	Sınıflandırılmamıştır.
Aspirasyon zararlılığı	Sınıflandırılmamıştır.

BÖLÜM 12: Ekolojik bilgiler**12.1 Toksikite****Ekotoksikite etkileri**

Due to corrosive properties, product can be harmful/fatal to contaminated plants, animals, and aquatic life.

Kimyasal İsmi	Alg/sucul bitkiler	Balık	Eklembacaklı kabuklular
Lityum hidroksit		62.2 mg/l Danio rerio (96h)	

12.2 Kalıcılık ve bozunabilirlik

No additional information available.

12.3 Biyobirikim potansiyeli

No additional information available.

12.4 Topraktaki hareketlilik**Hareketlilik**

No additional information available.

12.5 PBT ve vPvB değerlendirme sonuçları

No additional information available.

12.6 Diğer advers etkiler.

No additional information available

BÖLÜM 13: Bertaraf etme bilgileri**13.1 Atık arıtma yöntemleri****Kalıntı atıkları / kullanılmamış ürünler**

Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Do not allow the product to be released into the environment.

Kirlenmiş ambalaj

Dispose in a safe manner in accordance with local/national regulations.

BÖLÜM 14: Taşımacılık bilgileri**IATA**

14.1. UN/ID No	UN2860
14.2. Teknik Adı	Lithium hydroxide
14.3. Taşımacılık zararlılık sınıf(lar)ı	8
14.4. Ambalajlama Grubu	II
Açıklama	Medium Danger
14.5. ERG Kodu	154
14.6.	

BÖLÜM 15: Mevzuat bilgileri

15.1 Maddeye veya karışıma özgü sağlık, güvenlik ve çevre yönetmelikleri/mevzuatları**Uluslararası Envanterler**

TSCA	Uyar
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Döküm

- TSCA** - Amerika Birleşik Devletleri Toksik Maddeler Kontrol Yasası Bölüm 8(b) Envanteri
EINECS/ELINCS - Avrupa Mevcut Ticari Kimyasal Maddeler Envanteri/AB Teblig Edilen Kimyasal Maddeler Listesi
DSL/NDSL - Kanada Yerli Maddeler Listesi/Yerli Olmayan Maddeler Listesi
PICCS - Filipinler Kimyasallar ve Kimyasal Maddeler Envanteri
ENCS - Japonya Mevcut ve Yeni Kimyasal Maddeler
IECSC - Çin Mevcut Kimyasal Maddeler Envanteri
AICS - Avustralya Kimyasal Maddeler Envanteri
KECL - Kore Mevcut ve Değerlendirilmiş Kimyasal Maddeler

15.2 Kimyasal Güvenlik Raporu

Bilgi mevcut değil

BÖLÜM 16: Diğer bilgiler

H302 - Yutulması halinde zararlıdır
H314 - Ciddi cilt yanıklarına ve göz hasarına yol açar

Verildiği Tarih	16-Mar-2022
Revizyon Tarihi	16-Mar-2022
Revizyon Notu	Uygulanamaz.

Bu madde güvenlik bilgi formu 1907/2006 sayılı Yönetmeliğin gerekliliklerine uygundur

Çekince

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.