

## **SAFETY DATA SHEET**

Issuing Date 19-Oct-2020 Revision date 17-Oct-2024 Revision Number 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Para-Pak® Single Vial Transport

Other means of identification

Product Code(s) 9016

UN number or ID number 1993

Recommended use of the chemical and restrictions on use

Recommended use In vitro diagnostic

Uses advised against No information available

Details of the supplier of the safety data sheet

**Manufacturer Address** 

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

E-mail Address www.meridianbioscience.com

Emergency telephone number

Emergency Telephone Emergency telephone CHEMTREC For US 1-800-424-9300 / (International)

1-703-527-3887

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 1
Flammable liquids	Category 3

### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

<u>Signal</u>	word
Dange	

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#### Hazard statements

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Causes damage to organs
Flammable liquid and vapor



Appearance aqueous solution

Physical state Liquid

**Odor** No information available

### **Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

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

Keep container tightly closed

Ground and bond container and receiving equipment

Use explosion-proof electrical/ ventilating / lighting/ .? / equipment

Use only non-sparking tools

Take action to prevent static discharges

Wear protective gloves/eye protection/face protection

### **Precautionary Statements - Response**

Specific treatment (see Section 4 on this label)

IF exposed: Call a POISON CENTER or doctor

Precautionary Statements - Response Specific treatment is urgent (see supplemental instructions on the administration of antidotes on this

label)

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

If eye irritation persists: Get medical advice/attention

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

In case of fire: Use CO2, dry chemical, or foam to extinguish

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

May be harmful if swallowed

Harmful to aquatic life with long lasting effects

#### **Unknown acute toxicity** 4.24 % of the mixture consists of ingredient(s) of unknown toxicity

28.54 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS No.	Weight-%	Trade secret
Ethyl alcohol	64-17-5	24.3	*
Isopropyl alcohol	67-63-0	1.52	*
Trade Secret	Trade Secret	0-10	*
Trade Secret	Trade Secret	0-5	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur. If symptoms persist, call a physician. If breathing

has stopped, give artificial respiration. Get medical attention immediately.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. If symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if

irritation develops and persists.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes or clothing. Avoid breathing vapors or mists.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing.

Difficulty in breathing.

**Effects of Exposure** Causes damage to organs.

Indication of any immediate medical attention and special treatment needed

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

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Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Explosion data** 

**Sensitivity to mechanical impact** None. **Sensitivity to static discharge** Yes.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing

vapors or mists.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 7. HANDLING AND STORAGE

Precautions for safe handling

hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take

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off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm
		(vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³
Trade Secret	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 325 mg/m³
Trade Secret	STEL: 15 ppm TWA: 10 ppm	TWA: 10 ppm TWA: 25 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m³	IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m³ STEL: 15 ppm STEL: 37 mg/m³

### Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

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exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance aqueous solution

**Color** colorless

Odor No information available Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Hq 4.8-5.6 None known Melting point / freezing point No data available None known Initial boiling point and boiling range81.17 °C / 178.1 °F None known Flash point 29.5 °C / 85.1 °F Open cup **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known Relative vapor density No data available None known Relative density No data available None known No data available Soluble in water Water solubility Solubility in other solvents No data available None known None known Partition coefficient No data available **Autoignition temperature** No data available None known Hyphen No data available None known No data available Kinematic viscosity None known **Dynamic viscosity** No data available None known

Explosive properties No information available Oxidizing properties No information available

Other information

Softening point
Molecular weight
VOC content
Liquid Density
Bulk density
No information available

### 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

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Conditions to avoid Heat, flames and sparks. Excessive heat.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. Harmful by inhalation. (based on components).

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components). Toxic in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

#### Numerical measures of toxicity

#### **Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 4,833.30 mg/kg

 ATEmix (dermal)
 17,256.10 mg/kg

 ATEmix (inhalation-gas)
 6,290.70 ppm

 ATEmix (inhalation-dust/mist)
 44.328 mg/l

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

**Unknown acute toxicity** 4.24 % of the mixture consists of ingredient(s) of unknown toxicity

28.54 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl alcohol 64-17-5	7060 mg/kg (Rat)	-	124.7 mg/L (Rat)4 h
Isopropyl alcohol 67-63-0	1870 mg/kg (Rat)	4059 mg/kg (Rabbit)	72600 mg/m³ (Rat) 4 h
Trade Secret	6200 mg/kg (Rat)	15800 mg/kg (Rabbit)15840 mg/kg (Rabbit)	22500 ppm (Rat) 8 h 64000 ppm (Rat) 4 h
Trade Secret	3310 mg/kg (Rat)	1060 mg/kg (Rabbit)	11.4 mg/L (Rat) 4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation. May cause skin

irritation.

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Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol 64-17-5	A3	Group 1	Known	Х
Isopropyl alcohol 67-63-0	-	Group 1 Group 3	-	Х

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP (National Toxicology Program)** 

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** No information available.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE).

Causes damage to organs if inhaled.

**STOT - repeated exposure**No information available.

Target organ effects Liver, Respiratory system, Eyes, Skin, Central nervous system, Blood, Gastrointestinal tract

(GI), Reproductive system.

**Aspiration hazard** No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

LCOTOXICITY	1100111101110	datio ino with long labting	01100101	
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethyl alcohol	-	13400 - 15100: 96 h	EC50 = 34634 mg/L 30	9268 - 14221: 48 h
64-17-5		Pimephales promelas	min	Daphnia magna mg/L
		mg/L LC50 flow-through	EC50 = 35470 mg/L 5 min	LC50 2: 48 h Daphnia
		100: 96 h Pimephales		magna mg/L EC50 Static
		promelas mg/L LC50		10800: 24 h Daphnia
		static 12.0 - 16.0: 96 h		magna mg/L EC50
		Oncorhynchus mykiss		
		mL/L LC50 static		
Isopropyl alcohol	1000: 96 h Desmodesmus	9640: 96 h Pimephales	-	13299: 48 h Daphnia
67-63-0	subspicatus mg/L EC50	promelas mg/L LC50		magna mg/L EC50
	1000: 72 h Desmodesmus	flow-through 1400000: 96		
	subspicatus mg/L EC50	h Lepomis macrochirus		
		μg/L LC50 11130: 96 h		
		Pimephales promelas		

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		mg/L LC50 static		
Trade Secret	-	100: 96 h Pimephales	EC50 = 39000 mg/L 25	-
		promelas mg/L LC50	min	
		static 28200: 96 h	EC50 = 40000 mg/L 15	
		Pimephales promelas	min	
		mg/L LC50 flow-through	EC50 = 43000 mg/L 5 min	
		18 - 20: 96 h		
		Oncorhynchus mykiss		
		mL/L LC50 static 13500 -		
		17600: 96 h Lepomis		
		macrochirus mg/L LC50		
		flow-through 19500 -		
		20700: 96 h		
		Oncorhynchus mykiss		
		mg/L LC50 flow-through		
Trade Secret	-	75: 96 h Lepomis	EC50 = 8.8 mg/L 15 min	
		macrochirus mg/L LC50	EC50 = 8.8 mg/L 25 min	mg/L EC50 65: 48 h
		static 79: 96 h	EC50 = 8.8 mg/L 5 min	Daphnia magna mg/L
		Pimephales promelas		EC50 Static
		mg/L LC50 static		

Persistence and degradability

No information available.

#### **Bioaccumulation**

**Component Information** 

Component information		
Chemical name	Partition coefficient	
Ethyl alcohol 64-17-5	-0.32	
Isopropyl alcohol 67-63-0	0.05	
Trade Secret	-0.77	
Trade Secret	-0.31	

Other adverse effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** 

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Trade Secret	-	Included in waste stream:	-	U154
		F039		

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste.

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Chemical name	California Hazardous Waste Status
Ethyl alcohol	Toxic
64-17-5	Ignitable
Isopropyl alcohol	Toxic
67-63-0	Ignitable
Trade Secret	Toxic
	Ignitable
Trade Secret	Toxic
	Corrosive
	Ignitable

### 14. TRANSPORT INFORMATION

**DOT** Flammable Liquid, n.o.s.

UN number or ID number
Proper shipping name
Transport hazard class(es)
Packing group

1993
Ethanol
3

Special Provisions Note: 5 liters (per package) is the maximum that can be shipped on a cargo aircraft. Note:

Per 49 CFR - When Shipping 30 mL or less per inner packaging and the gross weight does

not exceed 64 lbs. use the 173.4 small quantity exception.

**IATA** Flammable Liquid, n.o.s.

UN number or ID number
UN proper shipping name
Transport hazard class(es)
Packing group

1993
Ethanol
3

### 15. REGULATORY INFORMATION

**International Inventories** 

TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AIIC -

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %

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Isopropyl alcohol - 67-63-0	1.0
Trade Secret -	1.0

### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trade Secret	5000 lb	-	-	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Trade Secret	5000 lb	-
Trade Secret	5000 lb	-

#### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
Ethyl alcohol - 64-17-5	Carcinogen	
	Developmental	
Trade Secret -	Developmental	

#### **U.S. State Right-to-Know Regulations**

#### **US State Regulations**

This product may contain substances regulated by state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol 64-17-5	X	X	X
Isopropyl alcohol 67-63-0	X	X	X
Trade Secret	X	X	X
Trade Secret	X	X	Х

#### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

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### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards - 4 3 Flammability 3 Instability - Special hazards - HMIS Health hazards - 4 \* 3 Flammability 3 Physical hazards - Personal protection -

Chronic Hazard Star Legend \*= Chronic Health Hazard

Prepared By Meridian Bioscience, Inc.

Issuing Date 19-Oct-2020

Revision date 17-Oct-2024

**Revision Note**No information available.

**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.

**End of Safety Data Sheet** 

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