



Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date Aug-23-2024

Revision Number 14

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

1.1. Product identifier

Product Code(s) 6405
Product name Reducing Reagent

Other means of identification

Pure substance/mixture Mixture

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

Recommended Use Use as a laboratory reagent Industrial (not for food or food contact use) Laboratory chemicals

Uses advised against (410) 778-3100

1.3. Details of the supplier of the safety data sheet

Manufacturer

LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620 USA
T 410-778-3100
F 410-778-9748

Contact for timely inquiries in regards to this product

E-mail address info@lamotte.com

Non-Emergency Telephone Number 800-344-3100

1.4. Emergency telephone number

24-Hour Emergency Telephone Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

24-Hour Emergency Telephone Number - §45 - (EC)1272/2008

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal word

None

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].
EUH210 - Safety data sheet available on request.

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

P103 - Read label before use.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P280 - Wear eye protection/ face protection.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P102 - Keep out of reach of children.

2.3. Other hazards

No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances
Glycerol	-	-
Water	-	-
Stannous chloride dihydrate	-	-

Chemical name	Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Glycerol	-
Water	-
Stannous chloride dihydrate	-

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Glycerol 56-81-5	95	No data available	200-289-5	No data available	-	-	-
Water 7732-18-5	to 100%	No data available	231-791-2	No data available	-	-	-
Stannous chloride dihydrate 10025-69-1	1.6	No data available	*-	No data available	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Glycerol 56-81-5	12600	10000	2.75	No data available	No data available
Water 7732-18-5	89838.9	No data available	No data available	No data available	No data available
Stannous chloride dihydrate 10025-69-1	2300	No data available	2	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Effects of Exposure	No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510) Storage class 10.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Glycerol 56-81-5	-	-	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	TWA: 2 mg/m ³	TWA: 2 mg/m ³ STEL 4 mg/m ³	TWA: 2 mg/m ³ Sk*	TWA: 2.0 mg/m ³	TWA: 2 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Glycerol 56-81-5	-	TWA: 10 mg/m ³ Ceiling: 15 mg/m ³	-	TWA: 10 mg/m ³	TWA: 20 mg/m ³
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	TWA: 2 mg/m ³	TWA: 2 mg/m ³ Ceiling: 4 mg/m ³	TWA: 2 mg/m ³ STEL: 4 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Glycerol 56-81-5	TWA: 10 mg/m ³	TWA: 200 mg/m ³	TWA: 200 mg/m ³ Peak: 400 mg/m ³	TWA: 10 mg/m ³	-
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	-	-	-	TWA: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 8 mg/m ³ Sk*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Glycerol 56-81-5	-	-	-	-	-
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Glycerol 56-81-5	-	-	-	-	TWA: 10 mg/m ³
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 4 mg/m ³	TWA: 2 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Glycerol 56-81-5	TWA: 10 mg/m ³	-	TWA: 11 mg/m ³	TWA: 200 mg/m ³ STEL: 400 mg/m ³	TWA: 10 mg/m ³
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³ Ceiling: 4 mg/m ³	-	TWA: 2 mg/m ³
Chemical name	Sweden		Switzerland		United Kingdom
Glycerol 56-81-5	-		TWA: 50 mg/m ³ STEL: 100 mg/m ³		TWA: 10 mg/m ³ STEL: 30 mg/m ³
Water 7732-18-5	-		-		-
Stannous chloride dihydrate 10025-69-1	NGV: 2 mg/m ³		TWA: 2 mg/m ³ STEL: 4 mg/m ³		TWA: 2 mg/m ³ STEL: 4 mg/m ³

Biological occupational exposure This product, as supplied, does not contain any hazardous materials with biological limits

limits

established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Glycerol 56-81-5	-	-	-	-	-
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	-	-	-	-	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Glycerol 56-81-5	-	-	-	-	-
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	-	-	-	-	-
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
Glycerol 56-81-5	-	-	-	-	
Water 7732-18-5	-	-	-	-	
Stannous chloride dihydrate 10025-69-1	-	-	-	-	
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
Glycerol 56-81-5	-	-	-	-	
Water 7732-18-5	-	-	-	-	
Stannous chloride dihydrate 10025-69-1	-	-	-	-	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
Glycerol 56-81-5	-	-	-	-	
Water 7732-18-5	-	-	-	-	
Stannous chloride dihydrate 10025-69-1	-	-	-	-	

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Glycerol 56-81-5	-	-	56 mg/m ³ [5] [6]
Water 7732-18-5	-	-	-
Stannous chloride dihydrate 10025-69-1	-	0.34 mg/kg bw/day [4] [6] 0.69 mg/kg bw/day [4] [7]	1 mg/m ³ [4] [6] 2.01 mg/m ³ [4] [7] 12.84 mg/m ³ [5] [7]
Non-hazardous ingredients N/A	-	-	-

Notes

[4]

Systemic health effects.

[5]

Local health effects.

[6]

Long term.

[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Glycerol 56-81-5	229 mg/kg bw/day [4] [6]	-	33 mg/m ³ [5] [6]
Water 7732-18-5	-	-	-
Stannous chloride dihydrate 10025-69-1	0.172 mg/kg bw/day [4] [6] 34.51 mg/kg bw/day [4] [7]	0.35 mg/kg bw/day [4] [6] 0.35 mg/kg bw/day [4] [7]	0.5 mg/m ³ [4] [7] 2 mg/m ³ [5] [7]
Non-hazardous ingredients N/A	-	-	-

Notes

[4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Chemical name	Oral	Dermal	Inhalation
Glycerol - 56-81-5	-	-	-
Water - 7732-18-5	-	-	-
Stannous chloride dihydrate - 10025-69-1	-	-	-
Non-hazardous ingredients - N/A	-	-	-

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Glycerol 56-81-5	0.885 mg/L	8.85 mg/L	0.0885 mg/L	-	-
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	0.8 mg/L	4.24 µg/L	-	-	-
Non-hazardous ingredients N/A	-	-	-	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Glycerol 56-81-5	3.3 mg/kg sediment dw	0.33 mg/kg sediment dw	1000 mg/L	0.141 mg/kg soil dw	-
Water 7732-18-5	-	-	-	-	-
Stannous chloride dihydrate 10025-69-1	51.37 mg/kg sediment dw	-	1.06 ng/L	-	-
Non-hazardous ingredients N/A	-	-	-	-	-

8.2. Exposure controls

Engineering controls	No information available.
Personal protective equipment	
Eye/face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	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	Liquid
Appearance	Clear Colorless to slightly colored viscous liquid
Color	(410) 778-3100
Odor	Odorless.
Odor threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Boiling point / boiling range	290 °C	For Glycerin
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Flash point	199 °C	CC for Glycerin (based on .?)
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
Concentration of solution used to measure pH	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	
Relative density	1.252 @ 25°C for Glycerin	
Bulk density	No data available	
Density	No data available	
Vapor density	No data available	
Particle characteristics		
Particle Size	(410) 778-3100	
Particle Size Distribution	(410) 778-3100	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
(410) 778-3100

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Hazardous decomposition products formed under fire conditions -. Carbon oxides (COx).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity**Numerical measures of toxicity**

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

ATEmix (oral) 10,119.00 mg/kg

ATEmix (dermal) 10,526.00 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat) 4 h
Water	> 90 mL/kg (Rat)	-	-
Stannous chloride dihydrate	= 2300 mg/kg (Rat)	-	= 2 mg/L (Rat) 4 h

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Chemical name	European Union
Glycerol	-
Water	-
Stannous chloride dihydrate	-

Carcinogenicity No information available.

Chemical name	European Union
Glycerol	-
Water	-
Stannous chloride dihydrate	-

Reproductive toxicity No information available.

Chemical name	European Union
Glycerol	-
Water	-
Stannous chloride dihydrate	-

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects (410) 778-3100.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	LC50: 51 - 57mL/L (96h, <i>Oncorhynchus mykiss</i>)	-	-
Water	-	-	-	-
Stannous chloride dihydrate	-	-	-	EC50: =55mg/L (48h, <i>Daphnia magna</i>)

12.2. Persistence and degradability

Persistence and degradability Inherently biodegradable, fulfilling criteria.

12.3. Bioaccumulative potential

Bioaccumulation This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

Component Information

Chemical name	Partition coefficient
Glycerol	-1.75
Water	-
Stannous chloride dihydrate	-

12.4. Mobility in soil

Mobility in soil (410) 778-3100.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment UN.

Chemical name	PBT and vPvB assessment
Glycerol	The substance is not PBT / vPvB
Water	Not determined
Stannous chloride dihydrate	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

(410) 778-3100.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental Hazard	Not Applicable
14.6 Special precautions for user	
Special Provisions	None

IMDG/IMO

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental Hazard	Not Applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	(410) 778-3100

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental Hazard	Not Applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental Hazard	Not Applicable
14.6 Special precautions for user	
Special Provisions	[DOT]: 101

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

National regulations

Chemical name	French RG number
Glycerol - 56-81-5	-
Water - 7732-18-5	-
Stannous chloride dihydrate - 10025-69-1	-

Germany**TA Luft (German Air Pollution Control Regulation)**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Glycerol	-	-	-
Water	-	-	-
Stannous chloride dihydrate	-	-	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Glycerol - 56-81-5	-	-
Water - 7732-18-5	-	-
Stannous chloride dihydrate - 10025-69-1	-	-

Persistent Organic Pollutants

Not applicable

Chemical name	Persistent Organic Pollutants per (EC) 2019/1021 - Annex Number
Glycerol - 56-81-5	-
Water - 7732-18-5	-
Stannous chloride dihydrate - 10025-69-1	-

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
Glycerol - 56-81-5	-
Water - 7732-18-5	-
Stannous chloride dihydrate - 10025-69-1	-

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Glycerol - 56-81-5	-	-
Water - 7732-18-5	-	-
Stannous chloride dihydrate - 10025-69-1	-	-

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	Ozone depletion potential (ODP)	Ozone-depleting substances (ODS)
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		regulation (EC) 1005/2009
Glycerol - 56-81-5	-	-
Water - 7732-18-5	-	-
Stannous chloride dihydrate - 10025-69-1	-	-

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Glycerol - 56-81-5	-
Water - 7732-18-5	-
Stannous chloride dihydrate - 10025-69-1	-

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Glycerol - 56-81-5	-
Water - 7732-18-5	-
Stannous chloride dihydrate - 10025-69-1	-

Chemical name	EU - Water Framework Directive (2000/60/EC)
Glycerol - 56-81-5	-
Water - 7732-18-5	-
Stannous chloride dihydrate - 10025-69-1	-

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Glycerol - 56-81-5	-
Water - 7732-18-5	-
Stannous chloride dihydrate - 10025-69-1	-

International Inventories

TSCA	Complies
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

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 Chemical Substances/European 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
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report (410) 778-3100

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

Legend Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared by Regulatory Affairs Department**Revision Date** Aug-23-2024**Recommendations on Use** Laboratory chemicals Industrial (not for food or food contact use) Restricted to professional users**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

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End of Safety Data Sheet