

# **Safety Data Sheet**

Revision Number 0

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

#### Product identifier Product name

Reducing Reagent

Other means of identificat	ion_
Product Code(s)	6405
Recommended use of the	chemical and restrictions on use
Recommended Use	Use as a laboratory reagent. Industrial (not for food or food contact use). Laboratory chemicals.
Details of the supplier of the	he safety data sheet
	Manufacturer Address
	LaMotte Company, Inc.
	802 Washington Avenue
	P.O. Box 329
	Chestertown, MD 21620 USA
	T 410-778-3100
	F 410-778-9748
Emergency telephone nun	nber
24 Hour Emergency Numbe collect) 813-248-0585	r (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call

# 2. HAZARDS IDENTIFICATION

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### **EMERGENCY OVERVIEW**

Appearance Clear Colorless to slightly colored viscous liquid

Physical state liquid

Odor Odorless

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep out of reach of children.

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED. Drink 1 or 2 glasses of water. Call a physician immediately.

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool.

Other Hazards May cause skin and eye irritation

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical name	CAS No	Weight-%
Stannous chloride dihydrate	10025-69-1	1.6
Glycerol	56-81-5	95

4. FIRST AID MEASURES			
First Aid Measures			
General advice	Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. If symptoms persist, call a physician.		
Inhalation	Remove to fresh air. If symptoms persist, call a physician.		
Ingestion	Induce vomiting, but only if victim is fully conscious. Drink plenty of water. Consult a physician if necessary.		
Self-protection of the first aider	Use personal protection recommended in Section 8. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.		

# **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists.		
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containment and cleaning up			
Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waster container. Dispose of contents/containers in accordance with local regulations.			
Methods for cleaning up	After cleaning, flush away traces with water.		
7. HANDLING AND STORAGE			

#### Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Do not taste or swallow. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

#### Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep out of the reach of children.

**Incompatible Products** 

Strong oxidizing agents. Strong acids. Strong bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

## Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Stannous chloride dihydrate	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 100 mg/m <sup>3</sup>
10025-69-1			TWA: 2 mg/m <sup>3</sup>
Glycerol	-	TWA: 15 mg/m <sup>3</sup>	Not Established
56-81-5		TWA: 5 mg/m <sup>3</sup>	

NIOSH IDLH: Immediately Dangerous to Life or Health

#### Appropriate engineering controls

Engineering Measures	Showers
	Eyewash stations
	Ventilation systems.

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

Eye/Face Protection	Wear safety glasses with side shields (or goggles).		
Skin and body protection	Protective gloves. Nitrile rubber.		
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance	liquid Clear Colorless to slightly colored viscous liquid	Odor	Odorless
Property	<u>Values</u>	Remarks • Method	
pH Melting point / freezing point	No information available	No information available	
Boiling point / boiling range Flash point	290 °C / 554 °F 199 °C / 390 °F	For Glycerin CC for Glycerin	
Evaporation rate Flammability (solid, gas) Flammability Limit in Air	No information available		
Upper flammability limit: Lower flammability limit: Vapor pressure	No information available No information available No information available		
Vapor density Specific gravity Water solubility Solubility in other solvents	No information available 1.252 @ 25°C for Glycerin No information available No information available		

Partition coefficient
Autoignition temperature
<b>Decomposition temperature</b>
Kinematic viscosity
Dynamic viscosity
Explosive properties
Oxidizing properties

#### **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density No information available No information available

No information available No information available No information available No information available No information available

# **10. STABILITY AND REACTIVITY**

Stability Hazardous polymerization	Stable under recommended storage conditions. Hazardous polymerization does not occur.
Conditions to avoid	Excessive heat. Incompatible Products.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	s Hazardous decomposition products formed under fire conditions Carbon oxides (COx).

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Stannous chloride dihydrate = 2300 mg/kg ( Rat ) = 700 mg/kg ( 10025-69-1 Rat )		Not Established	Not Established	
Glycerol = 12600 mg/kg(Rat) 56-81-5		> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat)1 h	

#### Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Stannous chloride dihydrate 10025-69-1	Not Established	Not Established	Not Established	Not Established
Glycerol 56-81-5	Not Established	Not Established	Not Established	Not Established
Chronic toxicity	ic toxicity Prolonged skin contact may defat the skin and produce dermatitis.			

ATEmix (oral)	10119
ATEmix (dermal)	10526 mg/kg

# **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Unknown Aquatic Toxicity 0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Stannous chloride dihydrate	Not Established	Not Established	55: 48 h Daphnia magna mg/L
10025-69-1			EC50 Static
Glycerol	Not Established	51 - 57: 96 h Oncorhynchus	500: 24 h Daphnia magna mg/L
56-81-5		mykiss mL/L LC50 static	EC50

#### Persistence and degradability

Inherently biodegradable, fulfilling criteria.

#### **Bioaccumulation/Accumulation**

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

Chemical name	Log Pow
Stannous chloride dihydrate 10025-69-1	Not Established
Glycerol 56-81-5	-1.76

# **13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

Dispose of waste product or used containers according to local regulations.

#### Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Stannous chloride dihydrate 10025-69-1	Not Established	-	Not Established	Not Established
Glycerol 56-81-5	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Stannous chloride dihydrate 10025-69-1	Not Established	Not Established	Not Established	Not Established
Glycerol 56-81-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Stannous chloride dihydrate 10025-69-1	-
Glycerol 56-81-5	-

# **14. TRANSPORT INFORMATION**

DOT

Not regulated

<u>IATA</u>	Not regulated
IMDG/IMO	Not regulated

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

#### 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

## US Federal Regulations

## <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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 %	
Stannous chloride dihydrate 10025-69-1	Not Established	
Glycerol 56-81-5	Not Established	
SARA 311/312 Hazard Categories		
Acute health hazard	No	
Chronic Health Hazard	No	
Fire hazard	No	
Sudden release of pressure hazard	No	
Reactive Hazard	No	

#### CWA (Clean Water Act)

This product does not contain any substances regulated as 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
Stannous chloride dihydrate 10025-69-1	Not Established	Not Established	Not Established	Not Established
Glycerol 56-81-5	Not Established	Not Established	Not Established	Not Established

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Stannous chloride dihydrate 10025-69-1	-	Not Established	-
Glycerol 56-81-5	-	Not Established	-

## US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

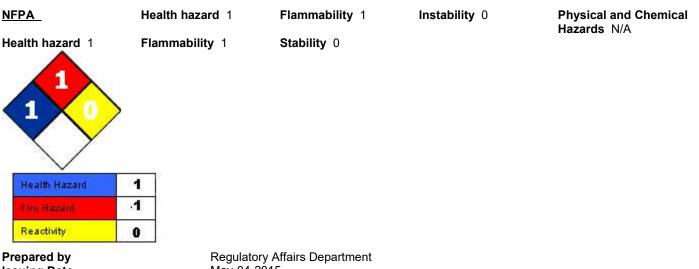
Chemical name	California Proposition 65
Stannous chloride dihydrate	Not Established
10025-69-1	
Glycerol	Not Established
56-81-5	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Stannous chloride dihydrate 10025-69-1	Х	Х	Not Established
Glycerol 56-81-5	Х	X	Х

### CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

## **16. OTHER INFORMATION**



**Issuing Date** Disclaimer

May-04-2015

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

#### **End of Safety Data Sheet**