

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier - Labeling according to Regulations (EC) No 1272/2008**

**Product Code(s)** 6405  
**Product name** Reducing Reagent

**Substance or Preparation** Preparation

**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

**1.3. Details of the supplier of the 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

Contact for timely inquiries in regards to this product:

**Person** Regulatory Affairs Department  
**E-mail address** system@lamotteco.com

**1.4. Emergency telephone number**

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

**Section 2: HAZARD(S) IDENTIFICATION****2.1. Classification of the substance or mixture**

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

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

*2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC*

*For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16*

**Symbol(s)**

Not dangerous

**2.2. Label elements - EU (§28, 1272/2008)**

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

**Pictogram(s)**

**Signal word** None

**Hazard statements** None

**EU Specific Hazard Statements**

EUH210 - Safety data sheet available on request

**Precautionary statements**

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. P103 - Read label before use. P102 - Keep out of reach of children.

**2.3. Other hazards**

None

### Section 3: COMPOSITION/ INFORMATION OF INGREDIENTS\*

**3.1 Substances**

Not Applicable

**3.2 Mixtures**

Chemical name	EC No	CAS No.	Weight-%	Classification	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No
Stannous chloride dihydrate	-	10025-69-1	1.6	-	No data available	-
Water	231-791-2	7732-18-5	to 100%	-	No data available	-
Glycerol	200-289-5	56-81-5	95	-	No data available	-

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

### Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures**

<b>General advice</b>	Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. If symptoms persist, call a physician.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Ingestion</b>	Induce vomiting, but only if victim is fully conscious. Drink plenty of water. Consult a physician if necessary.
<b>Self-protection of the first aider</b>	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.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

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

None known

## Section 5: FIREFIGHTER MEASURES

### 5.1. Extinguishing media

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

### 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 for firefighters** As in any fire, wear self-contained breathing apparatus and full protective gear

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. 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.

**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** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dispose of contents/containers in accordance with local regulations.

**Methods for cleaning up** After cleaning, flush away traces with water.

**6.4. Reference to other sections** For disposal see section 13.

**Methods for Containment and Clean Up** Pick up and transfer to properly labelled containers.

## Section 7: HANDLING AND STORAGE

### 7.1. 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.

**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.

### 7.2. 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.

### 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1. Control parameters

Chemical name	Eu	The United Kingdom	France	Spain	Germany
Stannous chloride dihydrate 10025-69-1	TWA 2 mg/m <sup>3</sup> as Sn	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>	Not Established	TWA: 2 mg/m <sup>3</sup>	-
Water 7732-18-5	Not Established	Not Established	Not Established	-	-
Glycerol 56-81-5	Not Established	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup> Ceiling / Peak: 100 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Stannous chloride dihydrate 10025-69-1	-	TWA: 2 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
Water 7732-18-5	-	Not Established	-	Not Established	Not Established
Glycerol 56-81-5	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 20 mg/m <sup>3</sup>	Not Established
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Stannous chloride dihydrate 10025-69-1	TWA: 2 mg/m <sup>3</sup> STEL 4 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>
Water 7732-18-5	-	Not Established	Not Established	Not Established	Not Established
Glycerol 56-81-5	-	TWA: 50 mg/m <sup>3</sup> STEL: 100 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	Not Established	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>

Chemical name	European Union	United Kingdom	France	Spain	Germany
Stannous chloride dihydrate 10025-69-1	-	-	-	-	-
Water 7732-18-5	-	-	-	-	-
Glycerol 56-81-5	-	-	-	-	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Stannous chloride dihydrate 10025-69-1	-	-	-	-	-
Water 7732-18-5	-	-	-	-	-
Glycerol 56-81-5	-	-	-	-	-
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Stannous chloride dihydrate 10025-69-1	-	-	-	-	-
Water 7732-18-5	-	-	-	-	-
Glycerol 56-81-5	-	-	-	-	-

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

#### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

#### Personal protective equipment

##### Eye/Face Protection Hand protection

Wear safety glasses with side shields (or goggles).  
Rubber/latex/neoprene or other suitable chemical resistant gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

<b>Skin and body protection</b>	Wear appropriate protective gloves and clothing to prevent skin exposure. Wear nitrile gloves.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Environmental exposure controls</b>	No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odor</b>	Odorless
<b>Appearance</b>	Clear Colorless to slightly colored viscous liquid		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	No information available		
Melting point / freezing point		No information available	
Boiling point / boiling range	290 °C / 554 °F	For Glycerin	
Flash point	199 °C / 390 °F	CC for Glycerin	
Evaporation rate		No information available	
Flammability (solid, gas)		No information available	
Flammability Limit in Air			
Upper	Not applicable		
Lower	Not applicable		
Vapor pressure	<17 mmHg @ 20°C	No information available	
Vapor density		No information available	
Specific gravity	1.252 @ 25°C for Glycerin	No information available	
Water solubility		No information available	
Solubility in other solvents		No information available	
Partition coefficient		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Kinematic viscosity		No information available	
Dynamic viscosity		No information available	
Explosive properties		No information available	
Oxidizing properties		No information available	
<b>9.2. Other information</b>			
Softening point		No information available	
Molecular weight		No information available	
VOC Content (%)		No information available	
Density		No information available	
Bulk density		No information available	

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing

#### 10.4. Conditions to avoid

Excessive heat. Incompatible Products.

#### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

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

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

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

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Stannous chloride dihydrate	= 2300 mg/kg ( Rat ) = 700 mg/kg ( Rat )		
Water	> 90 mL/kg ( Rat )		
Glycerol	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h

**Skin corrosion/irritation** No information available.  
**Serious eye damage/eye irritation** No information available.  
**Sensitization** No information available.  
**Mutagenic effects** No information available.  
**Carcinogenic effects** No information available.  
**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

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 EC50 Static
Water	Not Established	Not Established	Not Established
Glycerol	Not Established	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	500: 24 h Daphnia magna mg/L EC50

**12.2. Persistence and degradability**

Inherently biodegradable, fulfilling criteria.

**12.3. Bioaccumulative potential**

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

Chemical name	Log Pow
Stannous chloride dihydrate	Not Established
Water	Not Established
Glycerol	-1.76

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

Chemical name	PBT and vPvB assessment
Stannous chloride dihydrate	-
Water	-
Glycerol	-

**12.6. Other adverse effects**

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine disrupting potential
Stannous chloride dihydrate	Not Established	Not Established	Not Established
Water	Not Established	Not Established	Not Established
Glycerol	Not Established	Not Established	Not Established

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Waste from residues/unused products**

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

**Contaminated packaging**

Do not reuse empty containers.

## Section 14: TRANSPORT INFORMATION

**IMDG/IMO**

Not regulated

14.1  
14.2  
14.3  
14.4  
14.5

**RID**

14.1  
14.2  
14.3  
14.4

**ADR**

Not regulated

14.1  
14.2  
14.3  
14.4

14.5

IATA Not regulated

14.1

14.2

14.3

14.4

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical name	French RG number	Title
Stannous chloride dihydrate (CAS # 10025-69-1)	-	-
Water (CAS # 7732-18-5)	-	-
Glycerol (CAS # 56-81-5)	-	-

Germany None

Water contaminating class  
(Netherlands) None

Switzerland Poison Classification None

European Union None

#### International Inventories

TSCA	Does not comply
DSL/NDL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

#### Legend:

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

DSL/NDL - 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

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

## Section 16: ANY OTHER RELEVANT INFORMATION

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

#### Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed

#### Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**TWA** - TWA (time-weighted average)

**STEL** - STEL (Short Term Exposure Limit)

**Ceiling** - Maximum limit value

**Prepared by** Regulatory Affairs Department

**Issuing Date** May-04-2015

**Revision Date** Dec-20-2016

**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**

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**