



Issuing Date 7/2/2010

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Metal Inhibitor  
**Product Code(s)** 2785  
**Synonyms** none  
**Recommended Use** Laboratory chemicals. Test kit reagent.  
**Company** LaMotte Company, Inc.  
802 Washington Avenue  
P.O. Box 329  
Chestertown, MD 21620  
USA  
**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

2. HAZARDS IDENTIFICATION

**Emergency Overview**

May cause skin, eye, and respiratory tract irritation

Harmful if swallowed

**Appearance** Clear, colorless solution

**Physical State** Liquid

**Odor** None

**OSHA Regulatory Status** While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

**Potential Health Effects**

**Principle Routes of Exposure** Skin and eye contact

**Acute Toxicity**

**Eyes** Contact with eyes may cause irritation.  
**Skin** May cause irritation.  
**Inhalation** May cause irritation.  
**Ingestion** Harmful if swallowed.

**Chronic Effects**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	156-57-0	<10
Water	7732-18-5	to 100

4. FIRST AID MEASURES

<b>General Advice</b>	Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Drink plenty of water. Clean mouth with water. Consult a physician. Never give anything by mouth to an unconscious person.
<b>Protection of First-aiders</b>	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not applicable.			
<b>Flash Point</b>	Not applicable			
<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray.			
<b>Explosion Data</b>				
<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> -

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Refer to Section 8. Avoid contact with the skin and the eyes.
<b>Methods for Cleaning Up</b>	Keep in suitable and closed containers for disposal. If local regulations permit, rinse to drain with excess water.. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes and clothing. Do not ingest. Do not eat, drink or smoke when using this product.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, moisture, and incompatibles.. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride 156-57-0	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.  
**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

**Appearance** Clear, colorless solution      **Odor** None  
**Physical State** Liquid      **pH** 5  
**Flash Point** Not applicable      **Boiling Point/Range** no data available

**Specific Gravity** no data available      **Vapor Pressure** No data available  
**Vapor Density** No data available

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions.

**Incompatible Products** Strong oxidizing agents.

**Conditions to Avoid** Excessive heat. Incompatible products.

**Hazardous Decomposition Products** Hazardous decomposition products formed under fire conditions - carbon oxides (COx), nitrogen oxides (NOx), sulfur oxides (SOx), hydrogen chloride gas.

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

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**LD50 Oral VALUE (mg/kg)** mouse - 1,352mg/kg

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	None Known	None Known	None Known
Water	90 mL/kg ( Rat )	None Known	None Known

### Chronic Toxicity

**Carcinogenicity** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	None Known	None Known	None Known
Water	None Known	None Known	None Known

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information available.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	None Known
Water	None Known

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Method

Dispose of in accordance with local regulations.

Chemical Name
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride - 156-57-0
Water - 7732-18-5

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride - 156-57-0	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride 156-57-0 (<10)	Present	X	X	9-1422	X	KE-01332	X	X

Water 7732-18-5 ( to 100 )	Present	X	X	ENCS	X	KE-35400	X	X
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### U.S. Federal Regulations

#### SARA 313

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	CAS-No	Weight %	SARA 313 - Threshold Values %
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	156-57-0	<10	None Known
Water	7732-18-5	to 100	None Known

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride 156-57-0 (<10)	None Known	None Known	None Known	None Known
Water 7732-18-5 ( to 100 )	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	156-57-0	<10	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100	None Known	None Known	None Known	None Known

#### CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	None Known	None Known
Water	None Known	None Known

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	CAS-No	California Prop. 65
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	156-57-0	None Known
Water	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	None Known	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known



**International Regulations****Mexico - Grade** No information available.

Chemical Name	Carcinogen Status	Exposure Limits
2-Aminoethanethiol hydrochloride; Mercaptamine hydrochloride	None Known	None Known
Water	None Known	None Known

**Canada****WHMIS Hazard Class**

Non-controlled

## 16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tbody> <tr> <td>Health Hazard</td> <td>1</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </tbody> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0		Not regulated
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

**Prepared By** Regulatory Affairs Department**Issuing Date** 7/2/2010**Revision Date****Revision Note** Initial Release.**Disclaimer**

The information provided on this MSDS 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 MSDS**