spectrum[®]



SAFETY DATA SHEET

Preparation Date: 07/25/2019	Revision date 07/25/2019	Revision Number: G1			
1. IDENTIFICATION					
Product identifier					
Product code: Product Name:	M1127 2-MERCAPTOETHANOL, REAGENT				
Other means of identification					
Synonyms: CAS #: RTECS # CI#:	Emery 5791 2-Hydroxy-1-ethanethiol 2-Hydroxyethyl mercaptan 2-ME Mercaptoethanol beta-Mercaptoethanol Monothioethyleneglycol 1-Ethanol-2-thiol Ethylene glycol, monothio- 2-Thioethanol Thioethylene glycol 60-24-2 KL5600000 Not available				
Recommended use of the chem	ical and restrictions on use				
Recommended use:	Reducing agent. Protein denaturation. Rese chemicals.	arch and Development. Laboratory			
Uses advised against	No information available				
<u>Supplier:</u>	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000				
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Tom Tyner (USA - West Coast) Ibad Tirmiz (USA - East Coast)				
	2. HAZARDS IDENTIFICATION				

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 2
Acute toxicity - Inhalation (Gases)	Category 3

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

Label elements

Danger

Hazard statements

Toxic if swallowed or if inhaled Fatal in contact with skin Causes skin irritation Causes serious eye damage May cause an allergic skin reaction May cause damage to organs through prolonged or repeated exposure Combustible liquid



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Do not breathe mist or vapors Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep cool

Precautionary Statements - Response

Get medical attention if you feel unwell In case of fire: Use CO2, dry chemical, or foam to extinguish. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. IF ON SKIN: Gently wash with plenty of soap and water Immediately call a POISON CENTER or physician Take off immediately all contaminated clothing Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. IF SWALLOWED: Immediately call a POISON CENTER or physician Rinse mouth

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
2-Mercaptoethanol	60-24-2	100

4 FIRST AID MEASURES

	4. FIRST AID MEASURES
First aid measures	
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
Skin Contact:	Toxic in contact with skin. Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or poison control center immediately.
Eye Contact:	Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
Inhalation:	Toxic by inhalation. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation 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. Immediate medical attention is required.
Ingestion:	Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.
Most important symptoms and ef	fects, both acute and delayed
Symptoms	Fatal if absorbed through skin Causes serious eye damage Causes skin irritation May cause an allergic skin reaction May cause damage to organs through prolonged or repeated exposure Eye contact may result in redness or pain May cause corneal injury Irritating to mucous membranes Irritating to respiratory system May cause coughing and shortness of breath Sore throat

May cause abdominal pain, nausea, vomiting, diarrhea May affect behavior/central nervous system Headache Dizziness Excitement Tremors Convulsions Somnolence May affect respiration Respiratory depression May cause pulmonary edema It may affect the kidneys It may affect the urinary system It may affect metabolism May cause anorexia Weight loss/gain It may affect the heart May affect the liver (hepatotoxin)

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media:	Dry chemical. Water spray. Alcohol-resistant foam. Carbon dioxide (CO2).
Unsuitable Extinguishing Media:	Do not use a solid (straight) water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2). Sulfur oxides.
Specific hazards	Combustible material. May be ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating and/or toxic gases.
Special Protective Actions for Firefighters	
Specific Methods:	Water mist may be used to cool closed containers For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out
Special Protective Equipment 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:	Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear personal protective equipment. Remove all sources of ignition. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Pay attention to flashback. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.			
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water. Prevent product from entering drains. Do not let this chemical enter the environment.			
Methods and material for containment and cleaning up				
Methods for containment	Stop leak if you can do it without risk. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.			
Methods for cleaning up	Absorb spill with inert material (e.g. vermiculite, dry sand or earth). Use clean non-sparking tools to collect absorbed material. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.			

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Use only in well-ventilated areas. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Oxidizing agents calcium hypochlorite aliphatic amines isocyanates Metals Alkalis Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
2-Mercaptoethanol	60-24-2	None	None	None	0.2 ppm TWA

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
2-Mercaptoethanol	60-24-2	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
2-Mercaptoethanol	60-24-2	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles or Safety glasses with side-shields.
Skin and body protection:	Chemical resistant protective suit Boots Gloves
Respiratory protection:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Appearance: Clear.	Color: Colorless to pale yellow.	
Odor: Rotten-egg like. Slight. Characteristic. Unpleasant.	Taste No information available.	Formula C2H6OS	
Molecular/Formula weight (g/mole) 78.13	: Flammability (solid, gas) no data available	Flashpoint (°C/°F): 74°C/165°F 68°C/154°F	
Flash Point Tested according to: Closed cup Open cup Upper Explosion Limit (%):	Autoignition Temperature (°C/°F): 295°C/563°F	Lower Explosion Limit (%): 2.3%	
Product code: M1127	Product name:	Page 6/14	

2-MERCAPTOETHANOL, REAGENT

18%

Boiling point/range(°C/°F): 155-160°C/311-320°F

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): 0.12 (low) 0.64 (high)

Miscibility:

Reactivity

Miscible with water Miscible with Ether Miscible with alcohol Miscible with Benzene Miscible with many organic solvents Melting point/range(°C/°F): No information available

Bulk density: No information available

pH 4.5-6.0 (50%)

Vapor density: 2.69

Partition coefficient (n-octanol/water): log Kow -0.056

Solubility: Easily soluble in cold water Soluble in Ether Soluble in most organic solvents **Decomposition temperature(°C/°F):** 157-158°C/314-316°F

Density (g/cm3): 1.12

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Chemical stability

Reactive with oxidizing agents

Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur In use, may form flammable/explosive vapor-air mixture
Conditions to avoid:	Heat, flames and sparks. Ignition sources. Incompatible materials.
Incompatible Materials:	Oxidizing agents calcium hypochlorite aliphatic amines isocyanates Metals Alkalis Acids
Hazardous decomposition products:	Carbon oxides. Sulfur oxides.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)244 mg/kgComponent Information

2-Mercaptoethanol					
CAS No	60-24-2				
LD50/oral/rat = = 244 mg/kg	Oral LD50 Rat				
LD50/oral/mouse = 190 mg/					
	_/kg [168 mg/kg] dermal LD50 rabbit				
112 - 224 mg/kg Dermal LD50					
LD50/dermal/rat = No inform					
	g/L inhalation (vapor) LC50 rat				
625 ppm inhalation LC50 rat	3.2 mg/m ³ LC50 inhalation mouse				
	tion = 300 uL/kg dermal LD50 guinea pig				
Product Information					
LD50/oral/rat =					
Value - Acute Toxicity = 244 mg	g/kg				
LD50/oral/mouse =					
Value - Acute Tox = 190 mg/kg					
LD50/dermal/rabbit					
Value - Acute Toxicity = 112-22	24 mg/kg				
LD50/dermal/rat VALUE - Acute Tox = No inform	ation available				
LC50/inhalation/rat					
VALUE-Vapor = 2.0 mg/L					
VALUE-Gas = No information available					
VALUE-Dust/Mist = No information available					
LC50/Inhalation/mouse					
VALUE-Vapor = 13.2 mg/m ³					
VALUE - Gas = No information a VALUE - Dust/Mist = No information					
<u>Symptoms</u>					
Skin Contact:	Fatal if absorbed through skin. Causes skin irritation. Can be absor				
	the skin and cause systemic effects. If absorbed through skin it ma	y cause			
	systemic effects with symptoms similar to those of ingestion.				
Eye Contact:	Causes serious eye damage. Corrosive to the eyes and may cause	severe			
_,	damage including blindness. May cause corneal injury. Redness ar				
Inhalation	Toxic by inhalation. Causes respiratory tract and mucous membrar	e irritation			
	Causes respiratory tract (nose, throat, lung) irritation with coughing				
	of breath. It may cause pulmonary edema. May cause chemical pn				
Product ac des M4407	Broduct some	Doco 0/44			
Product code: M1127	Product name: 2-MERCAPTOETHANOL, REAGENT	Page 8/14			
	2-WENDAR TOLITIANOL, NEADENT				

	may affect the liver. May cause sore throat. May affect respiration (respiratory depression). It may affect the lungs.
Ingestion	Toxic if swallowed. May affect behavior/central nervous system (convulsions, muscle contraction or spasticity, excitement, tremor). May affect behavior/central nervous system (dizziness, headache). May affect behavior/central nervous system (somnolence). Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May affect respiration (shortness of breath, respiratory depression, pulmonary edema). May affect urinary system (kidneys). May affect liver. May affect metabolism (weight loss or decreased weight gain).
Aspiration hazard	No information available.
Delaved and immediate effects	as well as chronic effects from short and long-term exposure_
Chronic Toxicity	Prolonged or repeated exposure by inhalation or ingestion will have effects similar to those of acute inhalation or ingestion. Prolonged or repeated ingestion may affect metabolism (cause anorexia, weight loss). Prolonged or repeated exposure may cause injuries to liver, kidneys, lungs, and heart.
	Prolonged or repeated exposure by inhalation or ingestion will have effects similar to those of acute inhalation or ingestion. Prolonged or repeated ingestion may affect metabolism (cause anorexia, weight loss). Prolonged or repeated exposure

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
2-Mercaptoethanol	60-24-2	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

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

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	liver. kidney. Urinary Tract. respiratory system. central nervous system. heart.
Target Organs:	Liver, kidney, and respiratory system. Urinary Tract.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product code: M1127

2-Mercaptoethanol - 60-24-2 Algae/aquatic plants EC50: =12mg/L (72h, Desmodesmus subspicatus) 46-100 mg/L LC50 Leuciscus idus 96 h static 1 Fish 37 mg/L LC50 Leuciscus idus 96h static Crustacea EC50: =1.52mg/L (48h, Daphnia magna) 125 mg/L EC50 Pseudomonas putida 17h Toxicity to microorganisms Persistence and degradability: Not readily biodegradable **Bioaccumulative potential:** Potential for bioconcentration in aquatic organisms is low. Mobility in soil No information available Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers Dispose of as unused product.

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2-Mercaptoethanol	60-24-2	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No:	UN2966
Proper Shipping Name:	Thioglycol
Hazard Class	6.1
Subsidiary Class	No information available
Packing group:	II
Emergency Response Guide	153
Number	
Marine Pollutant	No data available
DOT RQ (Ibs):	No information available
Special Provisions	IB2, T7, TP2
Symbol(s):	No information available
Description:	UN2966, Thioglycol, 6.1, II
TDG (Canada)	
UN-No:	UN2966
Proper Shipping Name:	Thioglycol
Hazard Class	6.1
Subsidiary Risk:	No information available
Packing Group:	II
Marine Pollutant	No Information available
Description:	UN2966, Thioglycol, 6.1, II

ADR

Product code: M1127

UN Number Proper Shipping Name: Transport hazard class(es) Packing group Subsidiary Risk: Description:	UN2966 Thioglycol 6.1 II No information available UN2966, Thioglycol, 6.1, II
IMDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant EMS: Description	UN2966 Thioglycol 6.1 No information available II No information available F-A UN2966, Thioglycol, 6.1, II
RID UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Description:	UN2966 Thioglycol 6.1 No information available II UN2966, Thioglycol, 6.1, II
ICAO (air) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Description:	UN2966 Thioglycol 6.1 No information available II UN2966, Thioglycol, 6.1, II
IATA UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements - Response Special Provisions Description:	UN2966 Thioglycol 6.1 No information available II 6L No information available UN2966, Thioglycol, 6.1, II

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
2-Mercaptoethanol	60-24-2	PresentACTIV E	Present KE-23095	Present	Present (2)-458	Present	Present	Present 200-464-6

U.S. Regulations

2-Mercaptoethanol Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 2821 Pennsylvania RTK: Present Minnesota - Hazardous Substance List: Present FDA - 21 CFR - Total Food Additives 177.1020, 177.1030, 178.2010 - List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
2-Mercaptoethanol	60-24-2	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
2-Mercaptoethanol	60-24-2	None	None	None	None	None

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	()
2-Mercaptoethanol	60-24-2	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component 2-Mercaptoethanol 60-24-2 (100) WHMIS 2015 Hazard Classification Flammable liquids - Category 4: H227 Combustible liquid.; Acute toxicity - Dermal - Category 2: H310 Fatal in contact with skin.; Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Skin sensitizers - Category 1: H317 May cause allergic skin reaction.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
2-Mercaptoethanol	60-24-2	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
2-Mercaptoethanol	60-24-2	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
2-Mercaptoethanol	60-24-2	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
2-Mercaptoethanol	60-24-2	

EU - CLP (1272/2008)

R-phrase(s)

R27 - Very toxic in contact with skin

R34 - Causes burns

R38 - Irritating to skin

R43 - May cause sensitization by skin contact

R48 - Danger of serious damage to health by prolonged exposure

R23/25 - Toxic by inhalation and if swallowed

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 - After contact with skin, wash immediately with plenty of water

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest

S 1/2 - Keep locked up and out of the reach of children.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
2-Mercaptoethanol	60-24-2		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

- T+ Very toxic
- T Toxic
- C Corrosive
- Xi Irritant



16. OTHER INFORMATION

Preparation Date:	07/25/2019
Revision date	07/25/2019
Prepared by:	Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product

is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet