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

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Substance name</td>
<td>3-MERCAPTO PROPYLTRIMETHOXY SILANE</td>
</tr>
<tr>
<td>Product code</td>
<td>SIM6476.0</td>
</tr>
<tr>
<td>Formula</td>
<td>C₆H₁₆O₃SSi</td>
</tr>
<tr>
<td>Synonyms</td>
<td>3-(TRIMETHOXY SILYL) PROPYL MERCAPTAN</td>
</tr>
<tr>
<td>Chemical family</td>
<td>ORGANOMETHOXY SILANE</td>
</tr>
</tbody>
</table>

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

- **Use of the substance/mixture**: Chemical intermediate
- **For research and industrial use only**

### 1.3. Details of the supplier of the safety data sheet

**GELEST, INC.**
11 East Steel Road
Morrisville, PA 19067
USA
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST
info@gelest.com - www.gelest.com

### 1.4. Emergency telephone number

**Emergency number**: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (GHS-US)**
- Eye Irrit. 2A H319
- Aquatic Acute 2 H401

*Full text of H-phrases: see section 16*

### 2.2. Label elements

**GHS-US labelling**

**Hazard pictograms (GHS-US)**: ![GHS07](image)

**Signal word (GHS-US)**: Warning

**Hazard statements (GHS-US)**:
- H319 - Causes serious eye irritation
- H401 - Toxic to aquatic life

**Precautionary statements (GHS-US)**:
- P264 - Wash hands thoroughly after handling
- P273 - Avoid release to the environment
- P280 - Wear eye protection, protective gloves, protective clothing
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313 - IF EYE IRRITATION PERSISTS: Get medical advice/attention
- P501 - Dispose of contents/container to licensed waste disposal facility.

### 2.3. Other hazards

**Other hazards not contributing to the classification**: Classification (GHS-UN). Acute toxicity (oral) Category 5.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Multi-constituent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>3-MERCAPTO PROPYLTRIMETHOXY SILANE</td>
</tr>
</tbody>
</table>
3-MERCAPTOPROPYLTRIMETHOXYSILANE
Safety Data Sheet

3.2. Mixture
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Wash with plenty of soap and water.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Get medical advice/attention.

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


Symptoms/injuries after skin contact: May cause skin irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: May be harmful if swallowed. Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.

Chronic symptoms: On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system.

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

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture

Fire hazard: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

5.3. Advice for firefighters

Firefighting instructions: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.
6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Use only in well ventilated areas. Avoid all eye and skin contact and do not breathe vapor and mist. Manage all transfers with minimum fugitive emissions to manage odor issues.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed.


Storage area: Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**Methanol (67-56-1)**

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>USA NIOSH</th>
<th>USA OSHA</th>
<th>USA IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TWA (ppm)</td>
<td>200 ppm</td>
<td>260 mg/m³</td>
<td>260 mg/m³</td>
<td>600 ppm</td>
</tr>
<tr>
<td>ACGIH STEL (ppm)</td>
<td>250 ppm</td>
<td>325 mg/m³</td>
<td>250 ppm</td>
<td></td>
</tr>
<tr>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>NIOSH REL (STEL) (mg/m³)</td>
<td>325 mg/m³</td>
<td>325 mg/m³</td>
<td>325 mg/m³</td>
<td></td>
</tr>
<tr>
<td>NIOSH REL (STEL) (ppm)</td>
<td>250 ppm</td>
<td>250 ppm</td>
<td>250 ppm</td>
<td></td>
</tr>
<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>260 mg/m³</td>
<td>260 mg/m³</td>
<td>260 mg/m³</td>
<td></td>
</tr>
<tr>
<td>OSHA PEL (TWA) (ppm)</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>US IDLH (ppm)</td>
<td>600 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Provide local exhaust or general room ventilation.

Personal protective equipment: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection: Neoprene or nitrile rubber gloves.

Eye protection: Chemical goggles. Contact lenses should not be worn.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid.</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>196.34 g/mol</td>
</tr>
<tr>
<td>Color</td>
<td>Straw.</td>
</tr>
<tr>
<td>Odor</td>
<td>Unpleasant. Sulfide.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.4502</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
No additional information available

#### 10.2. Chemical stability
Stable in sealed containers.

#### 10.3. Possibility of hazardous reactions
Reacts with water and moisture in air, liberating methanol.

#### 10.4. Conditions to avoid
Heat. Sparks. Open flame.

#### 10.5. Incompatible materials
Moisture. Water.

#### 10.6. Hazardous decomposition products
Methanol. Organic acid vapors.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects
Acute toxicity: Not classified

**3-MERCAPTOPROPYLTRIMETHOXYSILANE (4420-74-0)**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>730 µl/kg</td>
</tr>
<tr>
<td>Methanol (67-56-1)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>6200 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>20 g/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>22500 ppm (Exposure time: 8 h)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>100,000 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>300,000 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (vapors)</td>
<td>3.000 mg/l/4h</td>
</tr>
</tbody>
</table>

**3-Chloropropyltrimethoxysilane (2530-87-2)**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5628 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>2830 µl/kg</td>
</tr>
</tbody>
</table>

**3-Mercaptopropyltrimethoxysilane (4420-74-0)**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>2380 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>6000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>2380.000 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>6000.000 mg/kg body weight</td>
</tr>
</tbody>
</table>
3-MERCAPTOPROPYLTRIMETHOXYSILANE
Safety Data Sheet

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification/Liability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Primary Irritation index (skin):</td>
<td>0.19</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Shown to be nephrotoxic in rabbits by 24-hour occluded contact at doses of 2.0 ml/kg and above, and at 4.0 ml/kg there was a necrotizing cystitis of the urinary bladder.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Symptoms/injuries after skin contact</td>
<td>May cause skin irritation.</td>
</tr>
<tr>
<td>Symptoms/injuries after eye contact</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Symptoms/injuries after ingestion</td>
<td>May be harmful if swallowed. Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.</td>
</tr>
<tr>
<td>Chronic symptoms</td>
<td>On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system.</td>
</tr>
</tbody>
</table>

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Methanol (67-56-1)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>&gt; 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
<td></td>
</tr>
</tbody>
</table>

**3-Mercaptopropyltrimethoxysilane (4420-74-0)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>12.3 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>6.7 mg/l</td>
</tr>
</tbody>
</table>

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

**Methanol (67-56-1)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>&lt; 10</td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.77</td>
<td></td>
</tr>
</tbody>
</table>

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

Other adverse effects: This substance may be hazardous to the environment.

Effect on ozone layer:

Effect on the global warming: No known ecological damage caused by this product.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Waste disposal recommendations: May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. Small spills can be mixed with 6% aqueous sodium hypochlorite (laundry bleach) to reduce odor.

Ecology - waste materials: Avoid release to the environment.

**SECTION 14: Transport information**

**14.1. UN number**

UN-No.(DOT): 3082
DOT NA no.: UN3082

**14.2. UN proper shipping name**

Proper Shipping Name (DOT): Environmentally hazardous substances, liquid, n.o.s.

3-MERCAPTOPROPYLTRIMETHOXYSILANE
3-MERCAPTOPROPYLTRIMETHOXYSILANE
Safety Data Sheet

Department of Transportation (DOT) Hazard Classes:
- 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT):
- 9 - Class 9 (Miscellaneous dangerous materials)

DOT Symbols:
- G - Identifies PSN requiring a technical name

Packing group (DOT):
- III - Minor Danger

DOT Packaging Exceptions (49 CFR 173.xxx):
- 155

DOT Packaging Non Bulk (49 CFR 173.xxx):
- 203

DOT Packaging Bulk (49 CFR 173.xxx):
- 241

14.3. Additional information
Other information:
- No supplementary information available.

Transport by sea
DOT Vessel Stowage Location:
- A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Air transport
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27):
- No limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75):
- No limit

SECTION 15: Regulatory information
15.1. US Federal regulations
Methanol (67-56-1):
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on United States SARA Section 313
- SARA Section 313 - Emission Reporting: 1.0 %

3-Chloropropyltrimethoxysilane (2530-87-2):
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

3-Mercaptopropyltrimethoxysilane (4420-74-0):
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
Methanol (67-56-1):
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on IECS (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Japanese Poisonous and Deleterious Substances Control Law

3-Chloropropyltrimethoxysilane (2530-87-2):
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on IECS (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
3-MERCAPTOPROPYLTRIMETHOXYSILANE
Safety Data Sheet

3-Mercaptopropyltrimethoxysilane (4420-74-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

3-MERCAPTOPROPYLTRIMETHOXYSILANE(4420-74-0)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Carcinogens List</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Methanol (67-56-1)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

3-Chloropropyltrimethoxysilane (2530-87-2)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

3-Mercaptopropyltrimethoxysilane (4420-74-0)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

3-Chloropropyltrimethoxysilane (2530-87-2)

SECTIO 16: Other information

Abbreviations and acronyms: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases:

- **Acute Tox. 3 (Dermal)**: Acute toxicity (dermal) Category 3
- **Acute Tox. 3 (Inhalation/vapour)**: Acute toxicity (inhalation/vapour) Category 3
- **Acute Tox. 3 (Oral)**: Acute toxicity (oral) Category 3
- **Aquatic Acute 2**: Hazardous to the aquatic environment - Acute Hazard Category 2
- **Eye Dam. 1**: Serious eye damage/eye irritation Category 1
- **Eye Irrit. 2A**: Serious eye damage/eye irritation Category 2A
- **Flam. Liq. 2**: Flammable liquids Category 2
- **Flam. Liq. 4**: Flammable liquids Category 4
- **Skin Irrit. 2**: Skin corrosion/irritation Category 2
- **STOT SE 1**: Specific target organ toxicity (single exposure) Category 1
- **STOT SE 3**: Specific target organ toxicity (single exposure) Category 3
- **H225**: Highly flammable liquid and vapor
3-MERCAPTOPROPYLTRIMETHOXY SILANE
Safety Data Sheet

H227  Combustible liquid
H301  Toxic if swallowed
H311  Toxic in contact with skin
H315  Causes skin irritation
H318  Causes serious eye damage
H319  Causes serious eye irritation
H331  Toxic if inhaled
H336  May cause drowsiness or dizziness
H370  Causes damage to organs
H401  Toxic to aquatic life

HMIS III Rating
Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability : 2 Moderate Hazard
Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.
Date of issue: 01/07/2015  Revision date: 07/09/2015  Version: 2.0

SDS US (GHS HazCom 2012) - Custom
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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