Material Safety Data Sheet
3-Mercaptopropionic acid, 99+%  

MSDS# 94467

Section 1 - Chemical Product and Company Identification

MSDS Name: 3-Mercaptopropionic acid, 99+%  
Catalog Numbers: AC125530000, AC125530050, AC125531000, AC125535000  
Synonyms: beta-Mercaptopropanoic acid; 3-Thiopropionic acid.  

Company Identification:  
Acros Organics BVBA  
Janssen Pharmaceuticaalaaan 3a  
2440 Geel, Belgium  
Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410  
For information in the US, call: 800-ACROS-01  
For information in Europe, call: +32 14 57 52 11  
Emergency Number, Europe: +32 14 57 52 99  
Emergency Number US: 201-796-7100  
CHEMTREC Phone Number, US: 800-424-9300  
CHEMTREC Phone Number, Europe: 703-527-3887  

Section 2 - Composition, Information on Ingredients

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| CAS#:                  | 107-96-0 |
| Chemical Name:         | 3-Mercaptopropionic acid |
| %:                    | >99 |
| EINECS#:               | 203-537-0 |
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Hazard Symbols: T  
Risk Phrases: 25 34

Section 3 - Hazards Identification

EMERGENCY OVERVIEW


Potential Health Effects
Eye: Causes eye burns. 
Skin: Causes skin burns. 
Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. 
Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. 
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower
eyelids. Get medical aid immediately.

**Skin:**
Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:**
Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

**Inhalation:**
Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to Physician:**

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**Section 5 - Fire Fighting Measures**

**General Information:**
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustible liquid and vapor.

**Extinguishing Media:**
Use water spray, dry chemical, carbon dioxide, or chemical foam.

- **Autoignition Temperature:** 350 deg C (662.00 deg F)
- **Flash Point:** 93 deg C (199.40 deg F)
- **Explosion Limits:**
  - **Lower:** 1.60 vol %
  - **Upper:** 0.00 vol %
- **NFPA Rating:** health: ; flammability: 2; instability: ;

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**Section 6 - Accidental Release Measures**

**General Information:**
Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**
Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

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**Section 7 - Handling and Storage**

**Handling:**
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.

**Storage:**
Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

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**Section 8 - Exposure Controls, Personal Protection**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Mercaptopropionic acid</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs: 3-Mercaptopropionic acid: None listed

**Engineering Controls:**
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

**Exposure Limits**

**Personal Protective Equipment**

- **Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- **Skin:** Wear appropriate protective gloves and clothing to prevent skin exposure.
- **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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**Section 9 - Physical and Chemical Properties**
Physical State: Liquid  
Color: clear, colorless  
Odor: stench  
pH: Not available  
Vapor Pressure: .04 mm Hg @ 20  
Vapor Density: Not available  
Evaporation Rate: Not available  
Viscosity: Not available  
Boiling Point: 110 - 111 deg C @ 15.00mm Hg  
Freezing/Melting Point: 17 - 19 deg C  

Decomposition Temperature: Not available  
Solubility in water: soluble in water.  
Specific Gravity/Density: 1.2180g/cm3  
Molecular Formula: C3H6O2S  
Molecular Weight: 106.14

Section 10 - Stability and Reactivity  
Chemical Stability: Has not been fully evaluated.  
Conditions to Avoid: None reported.  
Incompatibilities with Other Materials: Not available  
Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur, carbon dioxide.  
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information  
RTECS#: CAS# 107-96-0: UF5270000  
LD50/LC50: Oral, rat: LD50 = 96 mg/kg;  
Carcinogenicity: 3-Mercaptpropionic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information  
Not available

Section 13 - Disposal Considerations  
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information  
US DOT  
Shipping Name: CORROSIVE LIQUIDS, TOXIC, N.O.S.  
Hazard Class: 8  
UN Number: UN2922  
Packing Group: II  
Canada TDG  
Shipping Name: Not available  
Hazard Class:  
UN Number:  
Packing Group:

Section 15 - Regulatory Information  
European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: T  
Risk Phrases:  
R 25 Toxic if swallowed.
R 34 Causes burns.

Safety Phrases:

S 25 Avoid contact with eyes.
S 28A After contact with skin, wash immediately with plenty of water.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 107-96-0: 3

Canada

CAS# 107-96-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: B3

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 107-96-0 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 107-96-0 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997
Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.