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Material Safety Data Sheet

3-Mercaptopropanoic acid MSDS

Section 1: Chemical Product and Company Identification

Product Name: 3-Mercaptopropanoic acid 99% +

Catalog Codes: AC125530000, AC125530050, AC125531000, AC125535000

CAS#: 107-96-0

RTECS: Not applicable.

TSCA: Not applicable.

CI#: Not applicable.

Synonym: beta-Mercaptopropanoic acid; 3-Thiopropionic acid

Chemical Name: 3-Mercaptopropanoic acid

Chemical Formula: C₃H₆O₂S

Contact Information for Emergency: (0086) 551 65418678

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	By Weight
3-Mercaptopropanoic acid	107-96-0	≥ 99.0%

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Danger! Combustible liquid and vapor. Harmful if swallowed. Causes eye and skin burns. Causes digestive and respiratory tract burns. Stench. Target Organs: Eyes, skin, mucous membranes.

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.

Section 5: Fire and Explosion Data

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: 1.60 vol %

Lower:

Explosion Limits: .00 vol %

Upper:

NFPA Rating: health: ; flammability: 2; instability: ;

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.

Section 7: Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing.
 Handling: 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.

Section 8: Exposure Controls/Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
----- ----- ----- -----			
3-Mercaptopropionic acid	none listed	none listed	none listed

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

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 Data

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

RTECS:

LD50/LC50:

CAS# 107-96-0: Oral, rat: LD50 = 96 mg/kg;

Carcinogenicity: 3-Mercaptopropionic 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 (6.1)

UN Number: UN2922

Packing Group: II

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

Section 15: Other 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: 9/02/2015

Revision #6 Date: 7/20/2017

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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 we 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 we have been advised of the possibility of such damages.