

Material Safety Data Sheet

1. Identification of the substance

Product Name: 4-(2-Hydroxyethyl)thiomorpholine 1,1-Dioxide

Synonyms: 2-(1,1-Dioxothiomorpholino)ethanol

Chemical Formula: C₆ H₁₃NO₃ S

Molecular Weight: 179.23

Components: 4-(2-Hydroxyethyl)thiomorpholine 1,1

Percent: >98.0%(GC)(T)

CAS Number: 26475-62-7

Supplier: kinfon pharmachem co.,ltd

32F,Duhe Plaza, Lijiatuo Street, Banan Dist,Chongqing 400054 CHN

Website: <http://www.kfpharmachem.com> info@kfpharmachem.com

Emergency call:86-(0)23-8650-0814

2. Composition/information on ingredients.

Components: 4-(2-Hydroxyethyl)thiomorpholine 1,1

Percent: >98.0%(GC)(T)

CAS Number: 26475-62-7

3. Hazards identification

OSHA Haz Com: CFR 1910.1200: Not classifiable

Signal word: None

Hazard Statement(s): None

Pictogram(s) or Symbol(s): None

Precautionary Statement(s): None

Supplementary Information: While this material is not classified as hazardous under OSHA, this SDS contains valuable information

critical to safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

4. First aid measures

Inhalation: Move victim to fresh air. Call emergency medical service. Give artificial respiration if victim is not breathing.

Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin contact: Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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Eye contact: Move victim to fresh air. Check for and remove any contact lenses. In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Ingestion: If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat.

Rinse mouth. Keep victim warm and quiet. Loosen tight clothing such as a collar, tie, belt or waistband. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Effects of exposure (ingestion) to substance may be delayed.

Symptoms/effects:

Acute: No data available

Delayed: No data available

Immediate medical attention: If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire fighting measures

Suitable extinguishing media: Dry chemical, CO₂, water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.

Specific hazards arising from the chemical

Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides Silicates

Other specific hazards: Closed containers may explode from heat of a fire.

Special precautions for fire-fighters: Not available

Special protective equipment for fire-fighters:

Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations.

6. Accidental release measures

Personal precautions: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8).

Personal protective equipment: Wear protective clothing, gloves and eye protection.

Emergency procedures: In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise Caution.

Methods and materials for containment and cleaning up: Dike far ahead of liquid spill for later disposal.

Environmental precautions: Prevent entry into sewers, basements or confined areas.

7. Handling and storage

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Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Store under inert gas (e.g. Argon).

Storage incompatibilities: Store away from oxidizing agents

8. Exposure Controls

Exposure limits: No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hand protection: Wear protective gloves.

Eye protection: Safety glasses.

Skin and body protection: Lab coat.

9. Physical and chemical properties

Physical state (20°C): Solid

Form: Crystal - Powder

Color: White - Slightly pale reddish yellow

Odor: No data available

Odor threshold: No data available

Melting point/freezing point: 74°C (165°F)

Relative density: No data available

pH: No data available

Dynamic Viscosity: No data available

IARC: No data available

Kinematic Viscosity: No data available

NTP: No data available OSHA: No data available

pH: No data available

Evaporation rate: (Butyl Acetate = 1) No data available

Boiling point/range: 197°C (387°F)/0.1kPa

Flash point: No data available

Flammability (solid, gas): No data available

Autoignition temperature: No data available

10. Stability and reactivity

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Reactivity: Not Available.

Chemical Stability: Stable under recommended storage conditions. (See Section 7)

Possibility of Hazardous Reactions: No hazardous reactivity has been reported.

Conditions to avoid: Air sensitive. Exposure to air.

Incompatible materials: Strong oxidizing agents

Hazardous Decomposition Products: No data available

11. Toxicological information

Acute Toxicity: No data available

Skin corrosion/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

IARC: No data available

Kinematic Viscosity: No data available

NTP: No data available

OSHA: No data available

Reproductive toxicity: No data available

Routes of Exposure: Inhalation, Eye contact, Ingestion.

Symptoms related to exposure:

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Potential Health Effects:

No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested.

Target organ(s): No data available

12. Ecological information

Ecotoxicity

Fish: No data available

Crustacea: No data available

Algae: No data available

Persistence and degradability: No data available

Bioaccumulative potential (BCF): No data available

Mobility in soil: No data available

Partition coefficient:

n-octanol/water (log Pow)

No data available

Soil adsorption (Koc): No data available

Henry's Law:

constant (PaM³/mol) No data available

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13. Disposal consideration

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261.

Disposal of container: Dispose of as unused product.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. Transportation information

DOT (US) Non-hazardous for transportation.

IATA Non-hazardous for transportation.

IMDG Non-hazardous for transportation.

15. Regulatory information

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed

SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts Not Listed

New Jersey Not Listed

Pennsylvania Not Listed

California Proposition 65: Not Listed

16. Other information

This MSDS is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use.