

Safety Data Sheet (United States)

4-(4-Chlorobutyl)morpholine hydrochloride

1. Identification

Product name: 4-(4-Chlorobutyl)morpholine hydrochloride
Catalog#: 0655AQ
IUPAC name: 4-(4-Chlorobutyl)morpholine hydrochloride (1:1)
Product use restrictions: Only for research and development use by, or directly under the supervision of, a technically qualified individual.
Company: AK Scientific, Inc.
30023 Ahern Ave.
Union City, CA 94587
Telephone: (510) 429-8835
Fax: (510) 429-8836
Website: www.aksci.com
Emergency contact number: 1-800-633-8253 United States & Canada
1-801-629-0667 International

2. Hazard Identification:**GHS Classification (United States)**

Acute toxicity, Oral(Category 3)
Acute toxicity, Dermal(Category 4)
Skin corrosion(Category 1B)
Serious eye damage(Category 1)
Skin sensitization(Category 1)

Pictogram(s)**Signal word:**

Danger

Hazard statement(s)

H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statement(s):

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P330 If swallowed: Immediately call a poison center or doctor. Rinse mouth.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazards not otherwise classified (HNOC) or not covered by GHS:

None

3. Composition/Information on Ingredients

Synonyms: Not available.
CAS#: 98997-74-1
Purity: 98%

EC: Not available.

4. First Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Specific hazards arising from the chemical: Carbon oxides, Hydrogen chloride, Nitrogen oxides, Hydrogen chloride.

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Store long-term in a cool, dry place.

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8. Exposure Controls/Personal Protection**Exposure limits:**

OSHA PEL: Not available.
 NIOSH REL: Not available.
 ACGIH TLV: Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Personal protection

Eyes: Not Available.
 Hands: Not Available.
 Skin and body: Not Available.
 Respiratory: Not Available.

9. Physical and Chemical Properties

Physical State: Solid
 Molecular Formula: C₈H₁₆ClNO·HCl
 Molecular Weight: 214.13
 Odor: Not available.
 pH: Not available.
 Boiling Point Range: Not available.
 Freezing/Melting Point: 120-121°C
 Flash Point: Not available.
 Evaporation Rate: Not available.
 Flammability(solid,gas): Please see section 2.
 Explosive limits: Not available.
 Vapor Pressure: Not available.
 Vapor Density: Not available.
 Solubility: Not available.
 Relative Density: Not available.
 Refractive Index: Not available.
 Volatility: Not available.
 Auto-ignition Temperature: Not available.
 Decomposition Temperature: Not available.
 Partition Coefficient: Not available.

10. Stability and Reactivity

Reactivity: Not available.
 Chemical stability: Stable under recommended temperatures and pressures.
 Possibility of hazardous reactions: Not available.
 Conditions to avoid: Dust generation.
 Incompatible materials: Strong oxidizing agents.
 Hazardous decomposition products: Carbon oxides, Hydrogen chloride, Nitrogen oxides, Hydrogen chloride.

11. Toxicological Information

RTECS#: Not available.
 Acute toxicity: Not available.
 Routes of exposure: Inhalation, eye contact, skin contact, ingestion.
 Symptoms related to the physical, chemical and toxicological characteristics: Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation

- may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

Carcinogenicity

IARC: Not classified.

NTP: Not listed.

OSHA: Not Available..

Acute toxic effects: Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

12. Ecological Information

Ecotoxicity: Not available.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

13. Disposal Considerations

Disposal of waste: Not listed

Disposal of packaging: Not listed

14. Transportation Information

DOT (United States)

UN number: UN2923

Proper shipping name: Corrosive solids, toxic, n.o.s. (4-(4-Chlorobutyl)morpholine hydrochloride)

Transport hazard class: 8 (6.1);Corrosive,Poison

Packing group: III

IATA

UN Number: UN2923

Proper shipping name: Corrosive solid, toxic, n.o.s. (4-(4-Chlorobutyl)morpholine hydrochloride)

Transport hazard class: 8 (6.1);Corrosive,Poison

Packing group: III

15. Regulatory Information

TSCA (United States)

Not Available.

California Proposition 65: Not Available..

NFPA Rating: Health: Not available.

Flammability: Not available.

Instability: Not available.

16. Additional Information

Revision Date: 04/24/2021

Printed Date: 04/24/2021

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