

CONTACT : LEONID CHEMICALS

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MATERIAL SAFETY DATA SHEET

N-(2-CHLOROETHYL)-MORPHOLINE

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

N-(2-CHLOROETHYL)-MORPHOLINE

Catalog Numbers: 10920-0000, 10920-0050, 10920-1000, 10920-5000

Synonyms: **Un Listed**

Company Information: LEONID CHEMICALS

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SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

3647-69-6

N-(2-CHLOROETHYL)-MORPHOLINE

CAS # : 3647Chemical Name : N-(2% : 99 %
: 222-8 EINECS# 222-881-2 Hazard Symbols Risk Phrases None Listed. None Listed.

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

None Listed.

Potential Health Effects

The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

SECTION 4- FIRST AID MEASURES

Eves:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.



Inhalation:

Remove from exposure and move to fresh air immediately.

Notes to Physician:

Un Listed

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

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SECTION 6- ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

SECTION 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles if splashing is possible.

Skin-

Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ______ Physical State Crystalline powder Color white to beige Odor Not available. На Not available. Vapor Pressure Not available. Viscosity Not available. Boiling Point Not available. Freezing/Melting Point 182.00 - 185.00 deg C Autoignition Temperature Not available. Flash Point Not available. Explosion Limits, lower Not available. Explosion Limits, upper Not available. Decomposition Temperature : Un Listed Solubility in water Un Listed : Un Listed : CALIST Specific Gravity/Density Molecular Formula C6H12CINO.HCI Molecular Weight 186.08 SECTION 10 - STABILITY AND REACTIVITY Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Incompatible materials. Incompatibilities with Other Materials: Strong oxidizing agents. **Hazardous Decomposition Products:** Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen. Polymerization: Has not been reported. SECTION 11 - TOXICOLOGICAL INFORMATION RTECS#: CAS# 3647-69-6: Qe0260000 LD50/LC50: Not available. Carcinogenicity: N-(2-CHLOROETHYL)-MORPHOLINE HYDROCHLORIDE, 99% -Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information. Other: Un Listed



Un Listed

SECTION 12 - ECOLOGICAL INFORMATION

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name : No information available.

Hazard Class : UN Number :

Packing Group :

IMO

Shipping Name : No information available.

Hazard Class :

UN Number :

Packing Group :

ID/ADR

Shipping Name : No information available.

Hazard Class :

UN Number :

Packing Group :

SECTION 15 - REGULATORY INFORMATION

European/International Regulations European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases: Not available.

Safety Phrases:

\$24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 3647-69-6: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 3647-69-6 is listed on Canada's NDSL List.

CAS# 3647-69-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

Un Listed



SECTION 16 - ADDITIONAL INFORMATION

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 way 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.

