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Material Safety Data Sheet

N-methytldiethanolamine

Section 1: Chemical Product and Company Identification

Product Name: N-Methyldiethanolamine, 99+%

CAS#: 105-59-9 RTECS:KL7525000

TSCA: TSCA 8(b) inventory: N-Methyldiethanolamine

CI#: Not available.

Synonym: MDEA; 2,2'-(Methylimino)diethanol **Chemical Name:** N-Methyldiethanolamin

Chemical Formula: C5H13NO2

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Section 2: Composition and Information on Ingredients

Composition:

NameCAS # %By WeightN-Methyldiethanolamine105-59-9100%

Toxicological Data on Ingredients: Not available.

Section 3: Hazards Identification

EMERGENCY OVERVIEW

Irritating to eyes.

Potential Health Effects

Eye: Causes eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: Not available.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention. **Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

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.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Special Remarks on Explosion Hazards: Not available.

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

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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 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.

Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical state and appearance: Clear liquid

Odor: amine-like

Taste: Not available.

Molecular Weight: 119.16 .

Color: Colorless - light yellow

pH (1% soln/water): 11.5(100g/l aq.sol.) **Boiling Point:** 243 deg C @ 760mmHg .

Melting Point: -21 deg C.

Critical Temperature: Not available.

Specific Gravity: 0.915 (Water = 1)

Vapor Pressure: 0.026 mbar @ 40 deg C

Viscosity: 101mPa.s @ 20 deg C

Autoignition Temperature: 265 deg C (509.00 deg F)

Flash Point: 137 deg C (278.60 deg F) Explosion Limits, lower: 0.9 vol % Explosion Limits, upper: 8.4 vol % Specific Gravity/Density: 1.0380g/cm3

Molecular Formula: C5H13NO2 Solubility in water: Miscible.

Section 10: Stability and Reactivity Data

Chemical Stability: Not available.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Oxidizing agents, acids.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

RTECS#: CAS# 105-59-9: KL7525000

LD50/LC50: CAS# 105-59-9: Draize test, rabbit, eye: 5 uL Mild; Draize test, rabbit, skin: 500 uL

Mild; Oral, rat: LD50 = 1945 mg/kg; **Skin, rabbit:** LD50 = 5990 uL/kg.

Not available.

Carcinogenicity: N-Methyldiethanolamine -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

Section 12: Ecological Information

Date not yet available

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable

Section 15: Other Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives WGK (Water Danger/Protection) CAS# 105-59-9

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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