1. Identification of Substance/ Identification of Company

Product: EDC - HCl
Catalog #: CXZ005
Chemical Formula: C₈H₁₈ClN₃
Synonyms: N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride, Water soluble carbodiimide, EDAC

Relevant Identified Uses: Laboratory chemicals, manufacture of substances

Supplier: AAPPTec, LLC
6309 Shepherdsville Road
Louisville, Kentucky USA
40228
Telephone: 502-968-2223
Fax: 502-968-3338

2. Hazards Identification

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

For full text of H-Statements mentioned in this section, see Section 16.

GHS label elements
Pictogram:

Signal word: Danger
Hazard statements:

H315 Causes skin irritation
H318 Causes serious eye irritation
H335 May cause respiratory irritation.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to
do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take of contaminated clothing and wash before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up
P501 Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS: none

3. Composition/ information on ingredients

Substance/preparation: Substance
Chemical Name: 1-(3-Dimethylamino)propyl)-3-ethyl-carbodiimide hydrochloride
Formula: C₂₈H₃₈ClN₃
Molecular Weight: 191.70 g/mol
CAS #: 25952-53-8
EC #: 247-361-2

Hazardous Components
1-(3-Dimethylamino)propyl)-3-ethyl-carbodiimide hydrochloride
Classification: Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H315, H318, H335
Concentration: <=100%

For the full text of H-Statements mentioned in this section, see Section 16.

4. First Aid Measures

First Aid Measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Flush eyes with water for at least 15 minutes and call a physician.

Most Important Symptoms and Effects, Both Acute and Delayed
The most important known symptoms and effects are described in the labeling (Section 2) or in Section 11.

Indication of Immediate Medical Attention and Special Treatment Needed
No data available

5. Fire-fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, carbon dioxide or dry chemical extinguisher.
Hazardous thermal decomposition products: Oxides of carbon (CO, CO₂), nitrogen (NOx), Hydrogen chloride gas

Special fire-fighting procedures: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) if necessary.

Further Information: No data available

6. Accidental Release Measures

Personal Precautions: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see Section 8.

Environmental Precautions: Do not let product enter drains.

Method and Materials for Containment and Cleaning Up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to Other Sections: For disposal see Section 13

7. Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation in places where dust is formed. For precautions see Section 2.

Storage: Keep container tightly closed in a dry, well-ventilated place.
Recommended Storage Temperature: -20 °C
Moisture sensitive. Store under inert gas.
Storage class (TRGS 510): Non-combustible solids

Specific End Uses: Apart from the uses mentioned in Section 1 no other specific uses are stipulated

8. Exposure Controls/Personal Protection

Control Parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values

Exposure Controls
Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day

Personal Protective Equipment
Eye/ Face Protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid
skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws.

Full Contact
Material: Nitrile Rubber
Minimum Layer Thickness: 0.11 mm
Breakthrough Time: 480 min

Splash Contact
Material: Nitrile Rubber
Minimum Layer Thickness: 0.11 mm
Breakthrough Time: 480 min

Test Method: EN 374

If used in solution, or mixed with other substances, and under conditions differing from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:** Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of dangerous material at the specific workplace.

**Respiratory:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of Environmental Exposure:** Prevent further leakage or spillage if safe to do so. Do not allow product to enter drains.

9. **Physical and Chemical Properties**

- **Physical State:** Crystalline
- **Color:** White, off-white
- **Odor:** No data available
- **Odor Threshold:** No data available
- **pH:** No data available
- **Melting Point:** 110-115 °C (93-95 °F) lit
- **Initial Boiling Point and Boiling Range:** 122-124 °C (230-239 °F)
- **Flash Point:** No data available
- **Evaporation Rate:** No data available
- **Flammability (solid, gas):** No data available
- **Upper/ Lower Flammability or Explosion Limits:** No data available
- **Vapor Pressure:** < 1.3 hPa (< 1.0 mmHg) at 20 °C (68 °F)
- **Vapor Density:** No data available
- **Relative Density:** No data available
- **Water Solubility:** 0.2 g/l
- **Partition Coefficient (n-octanol/water):** No data available
- **Auto-ignition Temperature:** No data available
Decomposition Temperature: No data available
Viscosity: No data available
Explosive Properties: No data available
Oxidizing Properties: No data available

Other Safety Information: No data available

10. Stability and Reactivity

Reactivity: No data available
Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: No data available
Conditions to Avoid: No data available.
Materials to Avoid: Strong oxidizing agents
Hazardous Decomposition Products: Carbon oxides (carbon dioxide, carbon monoxide) and nitrogen oxides (NOx), hydrogen chloride (HCl).

11. Toxicological Information

Acute Toxicity: No data available
Inhalation: No data available
Dermal: No data available
LD50 Intravenous – Mouse: 56 mg/kg

Skin Corrosion/irritation: No data available
Serious Eye Damage/Eye Irritation: No data available
Respiratory or Skin Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ Cell Mutagenicity: No data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive Toxicity: No data available
Specific Organ Toxicity – Single Exposure: No data available
Specific Organ Toxicity – Repeated Exposure: No data available
Aspiration Hazard: No data available
Additional Information
RTECS: FF2200000
Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
PBT and PvBv assessment: No data available
Other adverse effects: No data available

13. Disposal Considerations

Waste Treatment Methods
Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated Packaging: Dispose of as unused product.

14. Transportation

International Transport Regulations
DOT
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute health hazard

State Regulations:
Massachusetts Right To Know Components: No components listed.

Pennsylvania Right To Know Components:
1-(3-Dimethylamino)propyl)-3-ethyl-carbodiimide hydrochloride
CAS No: 25952-53-8
Revision Date:

New Jersey Right To Know Components:
1-(3-Dimethylamino)propyl)-3-ethyl-carbodiimide hydrochloride
CAS No: 25952-53-8
Revision Date:

California Prop. 65 Components:
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
16. Other Information

Full Text of H-Statements Referred to Under Sections 2 and 3

- Eye Dam.  Serious eye damage  
- H315  Causes skin irritation  
- H318  Causes serious eye damage  
- H335  May cause respiratory inflammation  
- Skin Irrit.  Skin irritation  
- STOT SE  Specific target organ toxicity – single exposure

Hazardous Material Information System (U.S.A.)

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National Fire Protection Association (U.S.A.)

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