Section 1 - Chemical Product and Company Identification

**MSDS Name:** Diethylamine hydrochloride, 99%

**Catalog Numbers:** 15589-0000, 15589-0010, 15589-0050, 15589-1000, 15589-5000

**Synonyms:**

**Company Identification:**
Acros Organics BVBA
Janssen Pharmaceuticaalaan 3a
2440 Geel, Belgium

**Company Identification: (USA)**
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

**For information in the US, call:** 800-ACROS-01

**For information in Europe, call:** +32 14 57 52 11

**Emergency Number, Europe:** +32 14 57 52 99

**Emergency Number US:** 201-796-7100

**CHEMTREC Phone Number, US:** 800-424-9300

**CHEMTREC Phone Number, Europe:** 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
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<tr>
<td>660-68-4</td>
<td>Diethylamine hydrochloride</td>
<td>99%</td>
<td>211-541-9</td>
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</table>

**Hazard Symbols:** XI

**Risk Phrases:** 36/37/38

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

_Irritating to eyes, respiratory system and skin. Hygroscopic (absorbs moisture from the air)._ 

**Potential Health Effects**
The toxicological properties of this substance have not been fully investigated.

Section 4 - First Aid Measures

**Eyes:** 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:

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.

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.

Exposure Limits

CAS# 660-68-4:

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear safety glasses and chemical goggles if splashing is possible.

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: Crystals

Color: white - off-white

Odor: None reported.

pH: Not available

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: 320 - 330 deg C @ 760.00mm Hg

Freezing/Melting Point: 227 - 230 deg C

Autoignition Temperature: Not available

Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: soluble in water
Specific Gravity/Density:
Molecular Formula: (C2H5)2NH.HCl
Molecular Weight: 109.60

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, strong oxidants.
Incompatibilities with Other Materials: Strong oxidants.
Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 660-68-4: IA3084000
LD50/LC50: RTECS:
CAS# 660-68-4: Oral, mouse: LD50 = 4860 mg/kg; Oral, rat: LD50 = 9900 mg/kg;
Carcinogenicity: Diethylamine hydrochloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

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<tr>
<th>Shipping Name:</th>
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<th>IMO</th>
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<td>Not available</td>
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<td>Packing Group:</td>
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</tbody>
</table>

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols: XI
Risk Phrases:
R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrases:
S 7 Keep container tightly closed.
S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)
CAS# 660-68-4: 1
Canada
CAS# 660-68-4 is listed on Canada's DSL List

US Federal
TSCA
CAS# 660-68-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996
Revision #0 Date Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 event 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.

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