Material Safety Data Sheet
N-1(Naphthyl)ethylenediamine dihydrochloride

Section 1 - Chemical Product and Company Identification

MSDS Name:
N-1(Naphthyl)ethylenediamine dihydrochloride

Catalog Numbers:
LC17540

Synonyms:

Company Identification:
LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:
(412) 826-5230

Emergency Phone Number:
(800) 424-9300

CHEMTREC Phone Number:
(800) 424-9300

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1465-25-4</td>
<td>N-(1-naphthyl)ethylenediamine dihydrochloride</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Appearance: Slight beige powder.

Caution! This is expected to be a low hazard for usual industrial handling.

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye:
Causes eye irritation.

Skin:
Harmful if absorbed through the skin. Causes skin irritation.

Ingestion:
Harmful if swallowed. May cause gastrointestinal irritation.

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

Chronic:
No information found.
Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:
Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:
Give conscious victim 2-4 cupfuls of milk or water. Get medical aid at once.

Inhalation:
Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust. Dry n-1(naphthyl)ethylenediamine dihydrochloride may produce hazardous decomposition products when heated.

Extinguishing Media:
For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:
No information found.

Flash Point:
No information found.

NFPA Rating:
CAS# 1465-25-4: Not published.

Explosion Limits:
Lower: Upper:

Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.
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Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:
Store in cool, dry area away from heat and oxidizers.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Provide local exhaust or general dilution ventilation.

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-(1-naphthyl)ethylenediamine dihydrochloride</td>
<td>None of the components are on this list.</td>
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</tr>
</tbody>
</table>

OSHA Vacated PELs:

Personal Protective Equipment

Eyes:
Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:
Wear appropriate protective gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
Not required for normal use.

Section 9 - Physical and Chemical Properties

Physical State: Powder.
Color: Slight beige.
Odor: Odorless
pH: No information found.
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: No information found.
Freezing/Melting Point: 195°C
Decomposition Temperature: 200°C
Solubility in water: Soluble in hot water.
Specific Gravity/Density: No information found.
Material Safety Data Sheet
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Molecular Formula: C₁₂H₁₄N₂·2HCl
Molecular Weight: 259.17

Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures. Dry material decomposes above 200°C.

Conditions to Avoid:
Incompatible materials.

Incompatibilities with Other Materials:
Strong oxidizing agents.

Hazardous Decomposition Products:
Carbon monoxide, oxides of nitrogen, carbon dioxide, hydrogen chloride gas.

Hazardous Polymerization:
Has not been reported.

Section 11 - Toxicological Information

RTECS:
CAS# 1465-25-4: KV5330000.

LD₅₀/LC₅₀:
CAS# 1465-25-4: No information found.

Carcinogenicity:
CAS# 1465-25-4: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
Section 15 - Regulatory Information

US Federal

TSCA:
CAS# 1465-25-4 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):
None of the components are on this list.

CERCLA/SARA Section 313:
None of the components are on this list.

OSHA - Highly Hazardous:
None of the components are on this list.

US State

State Right to Know:

California Regulations:

European/International Regulations

Canadian DSL/NDSL:
CAS# 1465-25-4 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:
CAS# 1465-25-4 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 4, 2004
Revision Date: November 4, 2004

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