MATERIAL SAFETY DATA SHEET
2-DIMETHYLAMINOETHANOL

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 2-Dimethylaminoethanol
Synonyms: N,N-Dimethylethanolamine, Deanol
Company Identification: Sisco Research Laboratories Pvt. Ltd.
Andheri (East), Mumbai – 400 099.
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Fax : +91 22 2687 8241
Website : www.srlchem.com

2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-01-0</td>
<td>2-Dimethylaminoethanol</td>
<td>98%</td>
<td>203-542-8</td>
</tr>
</tbody>
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3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes burns.

Potential Health Effects
Eye: Causes eye burns.
Skin: Harmful if absorbed through the skin. Causes skin burns.
Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns.
Inhalation: Harmful if inhaled. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.
Chronic: Possible risk of harm to the unborn child.

4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Do not induce vomiting. Get medical aid immediately.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.
### 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. Will burn if involved in a fire. Flammable liquid and vapor.

**Extinguishing Media:** Use foam, dry chemical, or carbon dioxide.

### 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. Remove all sources of ignition. Use a spark-proof tool.

### 7 – HANDLING AND STORAGE

**Handling:** Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

**Storage:** Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Corrosives area. Store under nitrogen.

### 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.

**Exposure Limits**

- **CAS# 108-01-0:**
  - United Kingdom, WEL - TWA: 2 ppm TWA; 7.4 mg/m³ TWA
  - United Kingdom, WEL - STEL: 6 ppm STEL; 22 mg/m³ STEL
  - Netherlands: 6 ppm STEL; 22 mg/m³ STEL
  - Netherlands: 2 ppm MAC; 7.4 mg/m³ MAC

**Personal Protective Equipment**

- **Eyes:** Wear chemical splash goggles.
- **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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Boiling Point: 134-136 deg C
Specific Gravity/Density: 0.884-0.888
Molecular Formula: C4H11NO
Molecular Weight: 89.14

10 - STABILITY AND REACTIVITY

Chemical Stability: Hygroscopic: absorbs moisture or water from the air.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials: Strong oxidizing agents, strong oxidizing agents, acids, copper, copper alloys, galvanized iron, zinc.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 108-01-0: KK6125000
LD50/LC50:
- CAS# 108-01-0: Draize test, rabbit, eye: 5 µL Severe; Inhalation, mouse: LC50 = 3250 mg/m3; Inhalation, rat: LC50 = 1641 ppm/4H; Oral, rat: LD50 = 2 gm/kg; Skin, rabbit: LD50 = 1370 µL/kg; Other: oral rat LD50 = 2130 mg/kg skin rabbit LD50 = 1220 mg/kg inh rat LC50 = 6.1 mg/L/4H skin rabbit: corrosive

Carcinogenicity: N,N-Dimethylethanolamine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated. Possible teratogen.

12 – ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Leuciscus idus: >100, < 220 mg/L; 96H; LC50 Daphnia: Daphnia: 98.37 mg/L; 48H; EC50

13 - DISPOSAL CONSIDERATIONS

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

14 - TRANSPORT INFORMATION

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<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
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<td>2-Dimethyl</td>
<td>2-Dimethyl</td>
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**15 - REGULATORY INFORMATION**

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

- **Hazard Symbols:** C
- **Risk Phrases:** R 10 Flammable. R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R 34 Causes burns.
- **Safety Phrases:** S 25 Avoid contact with eyes. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**WGK (Water Danger/Protection)**

- CAS# 108-01-0: 1

**Canada**

- CAS# 108-01-0 is listed on Canada's DSL List

**US Federal**

- TSCA
  - CAS# 108-01-0 is listed on the TSCA Inventory.

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**16 - ADDITIONAL INFORMATION**

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