

**MATERIAL SAFETY DATA SHEET****N, N-Dimethylethanolamine**

MSDS Name:	N,N-Dimethylethanolamine
Synonyms:	Deanol; 2-Dimethylaminoethanol
Company Identification:	Hazel Mercantile Limited
Company Identification: (INDIA)	701, Embassy Centre , Nariman Point , Mumbai – 400 021
For information in the INDIA, call:	+91-22-2282 4444 (50 Lines)

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
108-01-0	N,N-Dimethylethanolamine	99%	203-542-8

Hazard Symbols:	C
Risk Phrases:	10 20/21/22 34

Section 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.

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. 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.



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. Will burn if involved in a fire. Flammable liquid and vapor.
Extinguishing Media:	Use foam, dry chemical, or carbon dioxide.

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

Section 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.

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.
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.

Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	clear colorless to pale yellow
Odor:	Not available
pH:	11-12 (100 g/l water)
Vapor Pressure:	6.12mbar @20 deg C
Viscosity:	3.8 mPa s @20 deg C
Boiling Point:	134 deg C @760mmHg (282.20°F)
Freezing/Melting Point:	-70 deg C (-94.00°F)
Autoignition Temperature:	235 deg C (455.00 deg F)



Flash Point:	40 deg C (104.00 deg F)
Explosion Limits: Lower:	1.6 Vol %
Explosion Limits: Upper:	11.9 Vol %
Decomposition Temperature:	Not available
Solubility in water:	Miscible
Specific Gravity/Density:	0.888
Molecular Formula:	C4H11NO
Molecular Weight:	89.14

Section 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.

Section 11 - Toxicological Information

RTECS#:	CAS# 108-01-0: KK6125000
LD50/LC50:	RTECS: CAS# 108-01-0: Draize test, rabbit, eye: 5 uL Severe; Inhalation, mouse: LC50 = 3250 mg/m3; Inhalation, rat: LC50 = 1641 ppm/4H; Oral, rat: LD50 = 2 gm/kg; Skin, rabbit: LD50 = 1370 uL/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.

Section 12 - Ecological Information

Ecotoxicity:	Fish: Leuciscus idus: >100, < 220 mg/L; 96H; LC50 Daphnia: Daphnia: 98.37 mg/L; 48H; EC50
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Section 13 - Disposal Considerations

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

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	2-DIMETHYLAMINO-ETHANOL	2-DIMETHYLAMINO-ETHANOL	2-DIMETHYLAMINO-ETHANOL
Hazard Class:	8 (3)	8 (3)	8 (3)
UN Number:	2051	2051	2051
Packing Group:	II	II	II



Section 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.

Section 16 - Other Information

MSDS Creation Date:	September 27, 2007
Revision #0 Date	

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