



TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

DIETHYLAMINE MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product form : Substance
CAS No : 109-89-7
Product code : 38214, 38215

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/professional use spec : Industrial
For professional use only
Use of the substance/mixture : Laboratory Reagent

1.2.2. Uses advised against

No additional information available

1.3. Details of the manufacturer of the safety data sheet

Techno Pharmchem
Plot No.1022, Modern Industrial Estate,
Bahadurgarh-124507, India
T +91 11 23646422
info@technopharmchem.com

1.4. Emergency telephone number

Emergency number: +91 11 23646422 (9:30am – 5.30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008[CLP]

Flammable liquids, H225
Category 2
Acute toxicity (oral), H302
Category 4
Acute toxicity (dermal), H312
Category 4
Acute toxicity (inhal.), H332
Category 4
Skin corrosion/irritation, H314
Category 1A

Full text of classification categories and H- statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC

F; R11

Xn; R20/21/22

C; R35

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling according to regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H225 - Flammable liquid and vapour H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H314 - Causes skin burns and eye damage
Precautionary statements (CLP)	:	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P280 - Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a physician.

2.3. Other hazards

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name	:	DIETHYLAMINE
CAS-No.	:	109-89-7

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First – aid measures after inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor/physician. Specific treatment is urgent.
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- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a doctor/physician. Specific measures. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician. Specific treatment.
- First-aid measures after ingestion : Rinse mouth. Call a doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a doctor/physician. Specific treatment.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes skin burns and eye damage.
- Symptoms/injuries after inhalation : Corrosive to the respiratory tract.
- Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂)
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapour.
- Explosion hazard : May form flammable vapour-air mixture

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipments

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.



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6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

No additional information available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : [In case of inadequate ventilation] Wear respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	:	liquid
Molecular mass	:	73.14 g/mol
Color	:	clear colorless
Odor	:	ammonical
Odor threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	16.9
Melting Point	:	-50°C
Freezing point	:	No data available
Boiling point	:	55 - 58
Flash point	:	-28°C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Flammable
Vapor pressure	:	195 mm Hg at 20°C
Relative vapor density at 20°C	:	2.5
Relative density	:	No data available
Density	:	0.71 g/cm ³
Solubility	:	Water: Miscible in water
Log pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

10.2. Chemical Stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Direct sunlight.



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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates: Corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	:	Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
Skin corrosion/irritation	:	Causes severe skin burns and eye damage
Serious eye damage/irritation	:	Serious eye damage, category 1, implicit
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Additional information	:	Corrosive to the respiratory tract
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Harmful if swallowed. Harmful in contact with skin.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bio accumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT AND vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available



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Full text of R-phrases referred to under sections 2 and 3

C Corrosive

F Highly flammable

R11 Highly flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R35 Causes skin burns and eye damage.

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.