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Since 1985



**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

## DIETHANOLAMINE MATERIAL SAFETY DATA SHEET

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

#### 1.1 Product identifier

Product form	:	Substance
EC no	:	203-868-0
CAS No.	:	111-42-2
Product code	:	38212, 38213
Formula	:	C <sub>4</sub> H <sub>11</sub> NO <sub>2</sub>

#### 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]

Serious eye damage/eye	H318
Irritation, category 1	
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Specific target organ Toxicity – repeated Exposure, category 2	H373

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



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

Xn; R22

Xn; r48/22

Xi; R41

Xi; R38

Full text of R-phrases: see section16

### **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)	:	H302 – Harmful if swallowed H315 – Causes skin irritation H318 – Causes serious eye damage H373 – May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	:	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.

#### **2.3. Other hazards**

No additional information available

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1. Substances**

Name	:	DIETHANOLAMINE
CAS-No.	:	111-42-2
EC no	:	203-868-0
EC index no	:	603-071-00-1

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 person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
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- First – aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: get medical advice/attention.
- 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..
- First – aid measures after ingestion : Rinse mouth. Call a doctor/physician if you feel unwell.

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

- Symptoms/injuries : Causes damage to organs.
- Symptoms/injuries after inhalation : Causes skin irritation.
- Symptoms/injuries after skin contact : Causes serious eye damage
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazards.

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

Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 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

##### 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 : Stop release.

#### 6.2. Environmental precautions

Avoid release to the environment.



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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing dust/fume/gas/mist/vapour/spray.  
Hygiene measures : Do not eat, drink or smoke when using this product.  
Wash ... thoroughly after handling.

### 7.2. Conditions for safe storage, including any compatibilities

Storage conditions : Store in original container. Keep container tightly closed.  
Store in a dry place

### 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 : Wear respiratory protection.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state : liquid  
Molecular mass : 105.14 g/mol  
Color : clear colorless  
Odor : ammonia odor  
Odor threshold : No data available  
pH : 11 – 12 at 105 g/l at 25°C  
Relative evaporation rate (butylacetate=1) : No data available  
Melting Point : 28°C  
Freezing point : No data available  
Boiling point : 217°C  
Flash point : 138°C  
Auto-ignition temperature : 365°C

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Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	< 0.01 mm Hg @ 200C
Relative vapor density at 20°C	:	3.63
Relative density	:	No data available
Density	:	1.097 g/ml at 25°C
Solubility	:	water: 105 g/l at 20°C – completely soluble
Log pow	:	-2.18
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	0.016 – 0.106 vol %

## 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No additional information available

### 10.2. Chemical Stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Overheating

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity	:	Oral: harmful if swallowed.
Skin corrosion/irritation	:	Causes skin irritation pH: 11 – 12 at 105 g/l at 25°C
Serious eye damage/irritation	:	Causes serious eye irritation. pH: 11 – 12 at 105 g/l at 25°C

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Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Suspected of causing cancer..
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Harmful if swallowed.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

Log pow -2.18

### 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

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product/package disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN Number

ADR/RID: - IMDG: - IATA: -

### 14.2. UN proper shipping name

ADR/RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods

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#### 14.3. Transport hazard class (es)

ADR/RID: - IMDG: - IATA: -

#### 14.4. Packaging group

ADR/RID: - IMDG: - IATA: -

#### 14.5. Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

#### 14.6. Special precautions for user

No data available

### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Ensure all local, regional, national and/or international regulations are observed.

#### 15.2 Chemical safety Assessment

For this product a chemical safety assessment was not carried out.

### SECTION 16: OTHER INFORMATION

#### Full text of H-statements referred to under sections 2 and 3.

Acute Tox	Acute toxicity
Aquatic chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H302	Harmful if swallowed.
H315	Causes skin irritation
H318	Causes serious eye damage
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects
Skin irrit	Skin irritation
STOT RE	Specific target organ toxicity – repeated exposure

#### Full text of R – phrases referred to under section 2 and 3

Xn	Harmful
R22	Harmful if swallowed
R38	Irritating to skin
R41	Risk of serious damage to eyes.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R52/53	Harmful to aquatic organisms, may cause long – term adverse effects in the aquatic environment.

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