# Scientific Laboratory Supplies - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1 Revision date: 16 April 2021 Date printed: 16 September 2024

**Section 1. Identification** 

**Product Identifier** CHE1850

> Product Name DIETHYLAMINE pure 250ml.

CAS Number

**REACH Registration No** A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

(C, H, ), NH =73.14 Molecular Formula

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 **Supplier** Scientific Laboratory Supplies

**SCIENTIFIC LABORATORY** SUPPLIES

Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

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(Have this document to hand)

## Section 2. Hazards Identification

## 2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 2 H225: Highly flammable liquid and vapour.

Acute toxicity, category 3 (oral) H301: Toxic if swallowed.

Skin corrosion/irritation, category 1A H314: Causes severe skin burns and eye damage.

Acute toxicity, category 3 (dermal) H311: Toxic in contact with skin. H332: Harmful if inhaled. Acute toxicity, category 4 (inhalation)

Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

H335: May cause respiratory irritation. Spec target organ tox - single, category 3

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled. Causes Hazard Statements

severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.

**Precautionary Statements** Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective

clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy

to do and continue rinsing. IF ON SKIN: Wash with plenty of soap and water.

## Section 3. Composition

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Diethylamine	109-89-7	203-716-3		>99%	Flam. Liq. 2,Acute Tox. 3 (O),Skin Corr. 1A,Acute Tox. 3 (D),Acute Tox. 4 (I),Eye Dam. 1,STOT SE 3 (I)

# **Section 4. First Aid**

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In

severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If

breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen

if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the

recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

## **Section 5. Fire Fighting**

### 5.1 Extinguishing media

Extinguishing Media Alcohol resistant foam, dry powder, carbon dioxide or vaporising liquid. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive. Vapours may flow along surfaces to distant ignition sources and flash back.

#### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so. Beware: vapour is heavier than air and

will tend to accumulate at low spots.

### 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

## 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in

remote area, then dispose of absorbent as solid chemical waste. Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

# Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

## 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

## 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8	Long Term (8hr TWA)		Short Term 15min period)	
Diethylamine	109-89-7	>99%	10.0 ppm	25.0 mg/m-3	30.0 ppm	76.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

#### 8.2 Exposure controls

maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use solvent resistant gloves.

Eye Protection Use chemical full face shield.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance Clear colourless liquid.
Odour Characteristic amine odour.

pH Not applicable Boiling Point 55.5 °C Melting Point -49.8 °C

Flash Point -39 °C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition

10.1%
1.8%
310 °C

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 316 hPa @ 25 °C

Relative Density 0.7049

Water Solubility Completely miscible in water.

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

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10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

**10.5** Incompatable Materials Acids. Strong oxidising agents.

10.6 Hazardous Decomposition Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide.

Products

# Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin Both the vapour and liquid will, be irritating to the skin. Causes burns.

LD50 Skin 820mg/kg Rabbit

Ingestion Causes severe corrosion of the mouth, throat and gastro-intestinal tract. Toxic if swallowed.

LD50 Oral 540mg/kg Rat

Inhalation High concentrations of vapour will produce irritation of the eyes, nose, throat and respiratory tract.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information Air odour threshold is 0.3 ppm.

# Section 12. Ecological

**12.1** Toxicity A problem material due to it's intense odour. However it is readily biodegraded in the environment.

Ref: CHE1850

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

**12.2** Persistence and degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

## **Section 13. Disposal Considerations**

#### 13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion. Contaminated Packaging

# **Section 14. Transport Information**

14.1 UN Number 1154

14.2 Proper Shipping Name Diethylamine

14.3 Transport classes

UN classification Subsidiary hazard(s) Transport category ADR Hazard ID 338 Tunnel Restriction Code D/E 14.4 Packing Group

14.5 Environment hazards

See section 12.

14.6 Special precautions for

14.7 Transport in bulk

Not transported in bulk.

No special precautions required.

II

# Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

## Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Flammable liquid, category 2; Acute toxicity, category 3 (oral); Skin corrosion/irritation, category 1A; Acute

toxicity, category 3 (dermal); Acute toxicity, category 4 (inhalation); Serious eye damage/irritation, category 1; Spec

target organ tox - single, category 3

Signal word Danger

Hazard Pictograms







Hazard Statements H225, H301, H311, H332, H314, H318, H335

Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled. Causes

severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.

**Precautionary Statements** P210, P280, P305+P351+P338, P302+P352

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy

to do and continue rinsing. IF ON SKIN: Wash with plenty of soap and water.

#### 15.2 Chemical safety assessment

Assessment not required.

# **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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