# Scientific Laboratory Supplies - Safety Data Sheet

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

Revision: 2.1

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

**CHE185** 

# Section 1. Identification

1.1	Product Identifier	CHE1850
	Product Name	DIETHYLAMINE pure 250ml.
	CAS Number REACH Registration No	109-89-7 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.
	Molecular Formula	$(C_{2}H_{2})_{2}NH = 73.14$
1.2 H	<b>Relevent identified uses of t</b> Uses of Material	he substance or mixure & uses advised against 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
1.4	Phone Fax Email <b>Emergency Telephone</b>	0115 9821111 0115 9825275 sales@scientific-labs.com (08:00-17:00) 0115 9821111 (24hr) 112 (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 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 H225: Highly flammable liquid and vapour.
H301: Toxic if swallowed.
H314: Causes severe skin burns and eye damage.
H311: Toxic in contact with skin.
H332: Harmful if inhaled.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.

### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Danger

Signal word

Hazard Pictograms



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. Hazard 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. Precautionary Statements

## 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

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Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
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 aiders	Wear protective gloves / eye protection.

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

area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air a will tend to accumulate at low spots.		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 as will tend to accumulate at low spots.
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#### **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 Exposur	re Limits	
			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 Occupati	onal Exposure Limit V	alue.		
8.2 Exposure controls Respiratory Protection		Use L.E.V. or natural ventila maintained chemical cartrids				
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

Clear colourless liquid.
Characteristic amine odour.
Not applicable
55.5 °C

Melting Point Flash Point Upper Flammable Limit Lower Flammable Limit Auto Ignition Explosive Properties Oxidising Properties Vapour Pressure Relative Density Water Solubility -49.8 °C
-39 °C (Closed cup)
10.1%
1.8%
310 °C
Moderate/severe in confined spaces.
No.
316 hPa @ 25 °C
0.7049
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 reactions	No data available.
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 Products	Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide.

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

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

# Section 14. Transport Information

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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	3 8 2 338	FLAMMABLE LIQUID 3 8
	Tunnel Restriction Code	D/E	• •
14.4	Packing Group	II	
14.5	Environment hazards	See section 12.	
14.6	Special precautions for user	No special precautions required.	
14.7	Transport in bulk	Not transported in bulk.	

## 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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