Trafalgar Chemicals - Safety Data Sheet

0251-DH

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

Revision: 1.1 Revision date: 16 April 2021

Date printed: 18 September 2025

Section 1. Identification

Product Identifier 0251-DH

> Product Name DIETHYL ETHER A.R. 2.5L.

CAS Number 60-29-7

REACH Registration No 01-2119535785-29-XXXX

(C, H,), O =74.12 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 Trafalgar Chemicals**



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(24hr)

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Flammable liquid, category 1 H224: Extremely flammable liquid and vapour.

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

Spec target organ tox - single, category 3 H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Signal word Danger

Hazard Pictograms





Hazard Statements Extremely flammable liquid and vapour. Harmful if swallowed. May cause drowsiness or dizziness.

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

clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Store in a well ventilated place. Keep container tightly closed.

Supplemental Hazard Information (EU)

May form explosive peroxides. Repeated exposure may cause skin dryness or cracking.

Section 3. Composition

3.1 Substances

Component	Component CAS No. EC No.		REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Diethyl Ether	60-29-7	200-467-2	01-2119535785-29-XXXX	>99.5%	Flam. Liq. 1,Acute Tox. 4 (O),STOT SE 3 (D)	

Section 4. First Aid

4.1 Description of first aid measures

Eves 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.

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

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.

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 Dry powder, carbon dioxide or vaporising liquids. 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

Enviromental 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

All transfer systems should be earthed to prevent accumulation of static electricity. 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	oncentration Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
Diethyl Ether	60-29-7	>99.5%	100.0 ppm	310.0 mg/m-3	200.0 ppm	620.0 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.

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

Ref: 0251-DH

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 Ethereal.
pH Not applicable
Boiling Point 34.6°C
Melting Point -116.2°C

Flash Point -40°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
Explosive Properties
Oxidising Properties
Vapour Pressure

36%
1.9%
Not applicable
Not applicable
587hPa @ 20°C

Relative Density 0.7135

Water Solubility 1.2%

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 but may form peroxides on prolonged storage if air is present.

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 Incompatible materials Strong oxidising agents. Sulphuric acid. Nitric acid.

10.6 Hazardous Decomposition None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Both the vapour and liquid are irritating to the eyes but unlikely to cause serious injury.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Unlikely to be absorbed

across the skin in harmful amounts.

LD50 Skin Not available

Ingestion Ingestion of large amounts will produce symptoms resembling those of alcoholic intoxication ie excitation and

irritability. Further exposure will induce confusion, drowsiness, stupor and finally unconsciousness. Aspiration

during swallowing or vomiting may injure lungs. Death may follow due to respiratory failure.

LD50 Oral 1215mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits may produce irritation of the eyes,

nose, throat and respiratory tract. High concentrations of vapour will will induce confusion, drowsiness, stupor

and finally unconsciousness

LD50 Inhalation 73000mg/l Rat (4 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects A slight increase in miscarriage rate has been reported in women exposed to solvents.

Other Information Used medicinally as an inhalation anaesthetic.

Section 12. Ecological

12.1 Toxicity Readily bio-degraded in the environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available
2.2 Persistence and No data available.

12.2 Persistence and degradability No data avail

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

12.5 Results of PBT & vPvB Assessment not required.

assessment

N. 1

12.6 Other adverse effects None known at present.

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

14.1 UN Number 1155

14.2 Proper Shipping Name Diethyl ether

14.3 Transport classes

UN classification Subsidiary hazard(s) None Transport category ADR Hazard ID 33 **Tunnel Restriction Code** D/E

14.4 Packing Group

14.5 Environment hazards See section 12.

14.6 Special precautions for

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) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Classification Flammable liquid, category 1; Acute toxicity, category 4 (oral); Spec target organ tox - single, category 3

Signal word Danger

Hazard Pictograms





Hazard Statements H224, H302, H336

Extremely flammable liquid and vapour. Harmful if swallowed. May cause drowsiness or dizziness.

Precautionary Statements P210, P280, P303+P361+P353, P270, P264, P403+P233

> Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Store in a well ventilated place. Keep container tightly closed.

Supplemental Hazard

Information (EU)

EUH019, EUH066

May form explosive peroxides. Repeated exposure may cause skin dryness or cracking.

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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