



SAFETY DATA SHEET
DIETHYL ETHER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE
COMPANY/UNDERTAKING

PRODUCT NAME DIETHYL ETHER
SYNONYMS, TRADE NAMES Ether BP,
SUPPLIER Lindchem Ltd
27 - 30 North River Road
Great Yarmouth
Norfolk
NR30 1SH

Emergency Contact Number (Office Hours) +44 1493 850303
SDS No. D015

2 HAZARDS IDENTIFICATION

Extremely flammable. May form explosive peroxides. Harmful if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

CLASSIFICATION F+;R12 R19 Xn;R22 R66 R67

PHYSICAL AND CHEMICAL HAZARDS

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO. 603-022-00-4
EC No. 200-467-2
CAS-No. 60-29-7

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention.

INGESTION

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet. Take precautionary measures against static discharges. Do not smoke, use naked flames or other sources of ignition. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Provide good ventilation.

STORAGE PRECAUTIONS

Keep containers tightly closed. Keep in original container. Keep away from heat, sparks and open flame.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DIETHYL ETHER		100 ppm	310 mg/m ³	200 ppm	620 mg/m ³	

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

Use respiratory equipment with gas filter, type AX.

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash. Nitrile gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	Colourless
ODOUR	Sweetish

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SOLUBILITY	Soluble in water		
BOILING POINT (°C)	34	MELTING POINT (°C)	-116
RELATIVE DENSITY	0.71	VISCOSITY	0.233 mPas 20
FLASH POINT (°C)	-40	AUTO IGNITION TEMPERATURE (°C)	170
FLAMMABILITY LIMIT - LOWER(%)	1.7	FLAMMABILITY LIMIT - UPPER(%)	48
PARTITION COEFFICIENT (N-Octanol/Water)	0.82	SOLUBILITY VALUE (g/100g H2O@20°C)	7

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 200 - 2000 mg/kg (oral rat)

TOXIC CONC. - LC 50 >20 mg/l/4h (inh-rat)

INHALATION

Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness.

INGESTION

Harmful if swallowed. Drowsiness, dizziness, disorientation, vertigo.

SKIN CONTACT

Irritating to skin. Repeated exposure may cause skin dryness or cracking.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

EC 50, 48 Hrs, DAPHNIA, mg/l >100

MOBILITY

The product is soluble in water.

DEGRADABILITY

The product is easily biodegradable.

WATER HAZARD CLASSIFICATION

WGK 1

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Do not puncture or incinerate even when empty. Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

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UK ROAD CLASS	3			
PROPER SHIPPING NAME	DIETHYL ETHER (ETHYL ETHER)			
UN	1155	NO.	UK ROAD PACK GR.	ROAD
ADR CLASS NO.	3		ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	I		HAZARD No. (ADR)	33
ADR LABEL NO.	3		HAZCHEM CODE	3YE
CEFIC TEC(R) NO.	30GF1-I+II		RID CLASS NO.	3
RID PACK GROUP	I		UN NO. SEA	1155
IMDG	3		IMDG PACK GR.	CLASS
EMS	F-E, S-D		MFAG	See Guide
MARINE POLLUTANT	No.		UN NO. AIR	1155
AIR	3		AIR PACK GR.	CLASS

15 REGULATORY INFORMATION

LABELLING



Harmful



Extremely Flammable

RISK PHRASES

R12	Extremely flammable.
R19	May form explosive peroxides.
R22	Harmful if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S2	Keep out of the reach of children
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S29	Do not empty into drains.
S33	Take precautionary measures against static discharges.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. DSEAR

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16 OTHER INFORMATION

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REV. NO./REPL. SDS GENERATED	00
SDS NO.	D015
SAFETY DATA SHEET STATUS	
Approved.	
DATE	5th December 2008
SIGNATURE	Jitendra Panchal