



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Diethyl Ether AR
Cat No.	010230
CAS-No.	60-29-7
M.W.	74.12
EC-No.	200-467-2
Company	High Purity Laboratory Chemicals Pvt. Ltd.
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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	60-29-7
Percent	>99.0%
Substance/Mixture	Substance
Synonym	Ethyl ether; Solvent ether
Chemical Formula	(C ₂ H ₅) ₂ O

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids	(Category 1)
Acute toxicity, Oral	(Category 4)
Specific target organ toxicity - single exposure	(Category 3)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Danger

Hazard statement(s)

H224	Extremely flammable liquid and vapour.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides.
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	Use water spray to cool unopened containers.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/streams. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed. Store at < 30°C & keep in dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A clear mobile liquid not more than 10 hazen units in colour with a characteristic odour.
Odour	Sweet Ethereal odour
Odour Threshold	no data available
pH	no data available
Melting/freezing point	-116 °C
Boiling point/range	34-36°C
Flash point	-40 °C - closed cup
Evaporation rate	no data available
Vapour pressure	563 hPa at 20 °C
Vapour density	no data available
Relative density	0.713-0.717g
Water solubility	Insoluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Oxidizing agents, Strong acids.
Hazardous decomposition products	no data available
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute toxicity estimates Oral - 1.236 mg/kg LD50 Oral - Rat - 1.211 mg/kg (Diethyl ether) LC50 Inhalation - Mouse - 4 h - 97,5 mg/l – vapor LD50 Dermal - Rabbit - male - > 20.000 mg/kg (Diethyl ether) (OECD Test Guideline 402)
Skin corrosion/irritation	no data available

Serious eye damage/irritation	Eyes – rabbit	Result: Mild eye irritation
Respiratory/skin sensitization	no data available	
Germ cell mutagenicity	no data available	
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
Reproductive toxicity	no data available	
Specific target organ toxicity	Single exposure	: May cause drowsiness or dizziness.
Specific target organ toxicity	Repeated exposure:	no data available
Aspiration hazard	no data available	
RTECS	no data available	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill sunfish) - > 10.000 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1.380 mg/l - 48 h
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (Diethyl ether) (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - 21.000 mg/l - 3 h (Diethyl ether) (OECD Test Guideline 209)
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	1155
Proper shipping name	DIETHYL ETHER (ETHYL ETHER)
Hazard class	3
Packaging group	I
Marine pollutant	No

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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