## **DIETHYLETHER AR MSDS**

## CAS No: 60-29-7 MSDS



## MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Substance : CAS No : 60-29-7 Product code : 00104 Chemical structure CH<sub>3</sub> H<sub>3</sub>C Ο. Synonyms : Ether / Ethyl ether Relevant identified uses of the substance or mixture and uses advised against 1.2. 1.2.1. **Relevant identified uses** Use of the substance/mixture : Laboratory chemicals, Manufacture of substances Uses advised against 1.2.2. No additional information available 1.3. Details of the supplier of the safety data sheet Labogens Fine Chem Industries

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

#### 1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H224 Category 1 Acute toxicity (oral), H302 Category 4 Specific target organ H336 toxicity — Single exposure, Category 3, Narcosis

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

F+; R12 Xn; R22 R19 R66 R67 Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements		
Labelling according to Regulation (EC) I	No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	: GHS02 GHS07	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	<ul> <li>H224 - Extremely flammable liquid and vapour</li> <li>H302 - Harmful if swallowed</li> <li>H336 - May cause drowsiness or dizziness</li> </ul>	
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking</li> <li>P261 - Avoid breathing vapours, dust, fume, gas</li> </ul>	
EUH phrases	: EUH066 - Repeated exposure may cause skin dryness or cracking EUH019 - May form explosive peroxides	

2.3. Other hazards	
No additional information available	
SECTION 3: Composition/information on	n ingredients
3.1. Substance	
Name	: DIETHYLETHER AR
CAS No	: 60-29-7

Full text of R- and H-phrases: see section 16

3.2. Mixture Not applicable

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## SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate med	ical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	
Fire hazard	: Extremely flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May form explosive peroxides.
5.3. Advice for firefighters	
5.3.Advice for firefightersFirefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area.
Firefighting instructions SECTION 6: Accidental release measures	
Firefighting instructions SECTION 6: Accidental release measures 6.1. Personal precautions, protective	equipment and emergency procedures
Firefighting instructions SECTION 6: Accidental release measures	
Firefighting instructions SECTION 6: Accidental release measures 6.1. Personal precautions, protective	equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No naked
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Firefighting instructions SECTION 6: Accidental release measures 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures	<ul> <li>equipment and emergency procedures</li> <li>Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.</li> </ul>
Firefighting instructions SECTION 6: Accidental release measures 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	<ul> <li>equipment and emergency procedures</li> <li>Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.</li> <li>Evacuate unnecessary personnel.</li> </ul>
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Precautions for safe handling	: Avoid contact with skin and eyes. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe storage, inc	cluding any incompatibilities	
Technical measures	: Ground/bond container and receiving equipment. Proper grounding procedures to avoid static electricity should be followed.	
Storage conditions	: Keep in fireproof place. Keep container tightly closed.	
Incompatible products	: Oxidizing agent.	
Incompatible materials	: Heat sources.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/personal protection		

### 8.1. Control parameters

No additional information available

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: sweet etheral odour.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 37.5
Melting point	: -116 °C
Freezing point	: No data available
Boiling point	: 34.6 °C
Flash point	: -40 °C
Auto-ignition temperature	: 160 °C
Decomposition temperature	: No data available

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Flammability (solid, gas)	: Flammable Extremely flammable liquid and vapour
Vapour pressure	: 563 hPa at 20 °C
Relative vapour density at 20 °C	: 2.6
Relative density	: No data available
Density Solubility	: 0.71 g/cm³ : Water: 65 g/l at 20 °C
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: May form explosive peroxides.
Oxidising properties	: No data available
Explosive limits	: 0.018 - 0.48 vol %
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous rea	ctions
Reacts vigorously with strong oxidizers	
10.4. Conditions to avoid	

Sparks. Heat. Open flame.

### 10.5. Incompatible materials

Oxidizing agent.

## 10.6. Hazardous decomposition products

May release flammable gases. May form explosive peroxides.

<b>SECTION 11: Toxicological informa</b>	tion	
11.1. Information on toxicologica	al effects	
Acute toxicity	: Oral: Harmful if swallowed.	
-		
Skin corrosion/irritation	: Not classified	
Additional information	: Repeated exposure may cause skin dryness or cracking	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation	: Not classified	
Corm coll mutagonicity		

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Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: May cause drowsiness or dizziness.
exposure)	
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential adverse human health effects	: Harmful if swallowed.
and symptoms	
SECTION 12: Ecological information	
Section 12. Ecological mormation	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
40.0 Discourse define a stantial	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asse	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
Additional information	: Handle empty containers with care because residual vapours are flammable.
	Hazardous waste due to potential risk of explosion.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	.TA / ADN

14.1. UN number		
UN-No. (ADR)	: 1155	
UN-No. (IMDG)	: 1155	

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UN-No.(ADN) : 1155	
UN-No. (RID) : 1155	

14.2. U	N proper s	hipping name
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Proper Shipping Name (ADR)	: DIETHYL ETHER (ETHYL ETHER)
Proper Shipping Name (IMDG)	: DIETHYL ETHER (ETHYL ETHER)
Proper Shipping Name (IATA)	: DIETHYL ETHER
Proper Shipping Name (ADN)	: DIETHYL ETHER (ETHYL ETHER)
Proper Shipping Name (RID)	: DIETHYL ETHER (ETHYL ETHER)
Transport document description (ADR)	: UN 1155 DIETHYL ETHER (ETHYL ETHER), 3, I, (D/E)
Transport document description (IMDG)	: UN 1155 DIETHYL ETHER (ETHYL ETHER), 3, I (-40°C c.c.)
Transport document description (IATA)	: UN 1155 DIETHYL ETHER, 3, I
Transport document description (ADN)	: UN 1155 DIETHYL ETHER (ETHYL ETHER), 3, I
Transport document description (RID)	: UN 1155 DIETHYL ETHER (ETHYL ETHER), 3, I

### 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR)	
Danger labels (ADR)	



: 3 : 3

### IMDG

Transport hazard class(es) (IMDG)	
Danger labels (IMDG)	





#### ΙΑΤΑ

Transport hazard class(es) (IATA)	
Hazard labels (IATA)	

### ADN

Transport hazard class(es) (ADN)	
Danger labels (ADN)	



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:



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RID	
Transport hazard class(es) (RID)	:
Danger labels (RID)	:



3 3

14.4. Packing group	
Packing group (ADR)	:1
Packing group (IMDG)	:1
Packing group (IATA)	:1
Packing group (ADN)	:1
Packing group (RID)	: 1
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Stowage category (IMDG)

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Classification code (ADR)	:	F1
Limited quantities (ADR)	:	0
Excepted quantities (ADR)	:	E3
Packing instructions (ADR)	:	P001
Mixed packing provisions (ADR)	:	MP7, MP17
Portable tank and bulk container instructions (ADR)	:	T11
Portable tank and bulk container special provisions (ADR)	:	TP2
Tank code (ADR)	:	L4BN
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	1
Special provisions for carriage - Operation (ADR)	:	S2, S20
Hazard identification number (Kemler No.)	:	33
	•	
Orange plates	:	33
	:	
	:	33
Orange plates	:	33 1155
Orange plates Tunnel restriction code (ADR) EAC code	:	33 1155 D/E
Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea	:	33 1155 D/E
Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG)		33 1155 D/E •3YE
Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG)		33 1155 D/E •3YE
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Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG)		33 1155 D/E •3YE 0 E3 P001 T11
Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Tank instructions (IMDG)		33 1155 D/E •3YE 0 E3 P001 T11 TP2

: E

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Stowage and handling (IMDG) Flash point (IMDG) MFAG-No	: SW2 : -40°C c.c. : 127
- Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: E3 : Forbidden : Forbidden
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA)	: 351 : 1L : 361 : 30L : 3AH
- Inland waterway transport Classification code (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	: F1 : 0 : E3 : T : PP, EX, A : VE01 : 1
<ul> <li>Rail transport</li> <li>Classification code (RID)</li> <li>Limited quantities (RID)</li> <li>Excepted quantities (RID)</li> <li>Packing instructions (RID)</li> <li>Mixed packing provisions (RID)</li> <li>Portable tank and bulk container instructions (RID)</li> <li>Portable tank and bulk container special provisions (RID)</li> <li>Portable tank and bulk container special provisions (RID)</li> <li>Tank codes for RID tanks (RID)</li> <li>Transport category (RID)</li> </ul>	: F1 : 0 : E3 : P001 : MP7, MP17 : T11 : TP2 : L4BN : 1
Hazard identification number (RID)	: 33

**14.7.** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions DIETHYLETHER AR is not on the REACH Candidate List DIETHYLETHER AR is not on the REACH Annex XIV List

### 15.1.2. National regulations

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Germany AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 80)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark	
Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	: F+ <flam. 1="" liq.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

## Full text of R-, H- and EUH-phrases:

Tui text of R-, ri- and Eori-philases.		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Flam. Liq. 1	Flammable liquids, Category 1	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H224	Extremely flammable liquid and vapour	
H302	Harmful if swallowed	
H336	May cause drowsiness or dizziness	
EUH019	May form explosive peroxides	
EUH066	Repeated exposure may cause skin dryness or cracking	
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	
F+	Extremely flammable	
Xn	Harmful	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product