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

1.1. Product identifier	
Product form	: Substance
	:
CAS No	: 60-29-7
Product code	: 00104
Chemical structure	
Synonyms	: Ether / Ethyl ether

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

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

2.3.	Other hazards
No addi	tional information available
SECTIO	ON 3: Composition/information on ingredients

3.1. S	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 measure	2
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
First-aid measures after ingestion	and easy to do. Continue rinsing. Get medical advice/attention. : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	offects 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.
Symptoms/injunes after ingestion	
4.3. Indication of any immediate med	dical 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	e substance or mixture
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	
Firefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area.
Firefighting instructions	
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Firefighting instructions SECTION 6: Accidental release measure	
Firefighting instructions SECTION 6: Accidental release measure	S
Firefighting instructions SECTION 6: Accidental release measure 6.1. Personal precautions, protective General measures	s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No naked
Firefighting instructions SECTION 6: Accidental release measure 6.1. Personal precautions, protective	s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No naked
Firefighting instructions SECTION 6: Accidental release measure 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures	 s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
Firefighting instructions SECTION 6: Accidental release measure 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	 e equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. Evacuate unnecessary personnel.
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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 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contai Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage	 s equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area.
Firefighting instructions SECTION 6: Accidental release measure 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contai Methods for cleaning up 6.4. Reference to other sections No additional information available	 s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.

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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, in	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

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 %
10.1. Reactivity No additional information available 10.2. Charminal stability	
10.2.Chemical stabilityStable under normal conditions.	
10.3. Possibility of hazardous rea	actions
Reacts vigorously with strong oxidizers	s and acids.
10.4. Conditions to avoid	
Sparks. Heat. Open flame.	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition	
May release flammable gases. May for	rm explosive peroxides.
	tion
SECTION 11: Toxicological informat	
SECTION 11: Toxicological informat	

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
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

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Depreductive toxicity	: Not classified
Reproductive toxicity	
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
, opilation nazara	
Potential adverse human health effects	: Harmful if swallowed.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	sment
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	: Dispose of contents/container to
recommendations	-p · · · · · · · · · · · · · · · · · · ·
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 / IAT	A / ADN

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

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

14.2.	UN	proper	shipping 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)	





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

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





: 3



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Saloty Bala Choot	
RID	
Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 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

: No supplementary information available

14.6. Special precautions for user

- Overland transport

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Other information

- Overland transport	
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
Orange plates	33 1155
Orange plates Tunnel restriction code (ADR)	33
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Tunnel restriction code (ADR)	33 1155 : D/E
Tunnel restriction code (ADR) EAC code	33 1155 : D/E
Tunnel restriction code (ADR) EAC code - Transport by sea	33 1155 : D/E : •3YE
Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG)	33 1155 : D/E : •3YE : 0
Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG)	33 1155 : D/E : •3YE : 0 : E3
Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	33 1155 : D/E : •3YE : 0 : E3 : P001
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
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 : TP2

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

SECTION 16: Other information

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

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