DI-ISO-PROPYL ETHER AR/ACS MSDS

CAS No: 108-20-3 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
4.4 Des dus tidentifier			
1.1. Product identifier			
Product form	: Substance		
	:		
CAS No	: 108-20-3		
Product code	: 00109		
Chemical structure	$H_3C \xrightarrow{CH_3} CH_3$ $H_3C \xrightarrow{CH_3} CH_3$		
Synonyms	: Isopropyl ether		
1.2. Relevant identified uses of the s	ubstance 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 saf	ety 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, H Category 2 Specific target organ H toxicity — Single exposure, Category 3, Narcosis

H225 H336

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; R11 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)	: H225 - Highly flammable liquid and vapour H336 - May cause drowsiness or dizziness		
Precautionary statements (CLP)	: P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P261 - Avoid breathing dust/fume/gas/mist/vapours/spray		

Other hazards 2.3.

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Name CAS No	Substance	: DI-iso-PROPYL ETHER AR/ACS : 108-20-3	

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

3.2. **Mixture**

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measu	res	
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.	J.
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	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse caution with water for several minutes. If eye irritation persists: Get medical advice/attenti	
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First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
E 1 Extinguishing modia	
5.1. Extinguishing media Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	
	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: Highly 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	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measure	
SECTION 0. Accidental release measure	5
6.1. Personal precautions, protectiv	e equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions Avoid release to the environment.	
6.3. Methods and material for contain	inment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1 Proputiens for cafe handling	
7.1. Precautions for safe handling	. Llevelle servet southing and the serve has south a serve in side all southers and fleven shifts
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.
Precautions for safe handling	 No naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking.
Hygiene measures	: 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	luding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment.

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Incomp	e conditions patible products patible materials	 Keep in fireproof place. Keep container tightly closed. Oxidizing agent. 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	: Wear respiratory protection
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 102.18 g/mol
Colour	: Clear Colorless.
Odour	: etheral odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: 8
Melting point	: -85 °C
Freezing point	: No data available
Boiling point	: 65 - 70
Flash point	: -29 °C
Auto-ignition temperature	: 4430 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour
Vapour pressure	: 119 mm Hg at 20C
Relative vapour density at 20 °C	: 3.5
Relative density	: 0.73
Density	: 0.78 g/cm ³

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Solubility	: Water: 0.2 g/100ml @ 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	: 0.01 - 0.21 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	
	orm flammable/explosive vapour-air mixture.
10.3. Possibility of hazardous reaction	ons
Reacts vigorously with strong oxidizers an	
10.4. Conditions to avoid	
Open flame. Direct sunlight. Heat. Sparks	. Overheating.
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition proc	
May release flammable gases. May form e	explosive peroxides.
SECTION 11: Toxicological information	
11.1. Information on toxicological ef	fects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Additional information	: Repeated exposure may cause skin dryness or cracking
Serious eye damage/irritation Respiratory or skin sensitisation	: Not classified : Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single	: Not classified
SUPCIEC LARGEL ORGAN TOXICITY (SIDDLE	: May cause drowsiness or dizziness.
exposure)	.,
	: Not classified

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Aspiration hazard

: Not classified

SECTION 12: Ecological informatio	n
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradabi	ility
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 a	assessment
No additional information available	
12.6. Other adverse effects No additional information available	
SECTION 13: Disposal consideration	pns
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	1
In accordance with ADR / RID / IMDG	; / IATA / ADN
14.1. UN number	
UN-No. (ADR)	: 1159
UN-No. (IMDG)	: 1159
UN-No.(IATA)	: 1159
UN-No.(ADN)	: 1159
UN-No. (RID)	: 1159
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: DIISOPROPYL ETHER
Proper Shipping Name (IMDG)	: DIISOPROPYL ETHER
Proper Shipping Name (IATA)	: DIISOPROPYL ETHER
Dropor Shipping Name (ADN)	

: DIISOPROPYL ETHER

Proper Shipping Name (ADN)

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Proper Shipping Name (RID)	: DIISOPROPYL ETHER
Transport document description (ADR)	: UN 1159 DIISOPROPYL ETHER, 3, II, (D/E)
Transport document description (IMDG)	: UN 1159 DIISOPROPYL ETHER, 3, II (-29°C c.c.)
Transport document description (IATA)	: UN 1159 DIISOPROPYL ETHER, 3, II
Transport document description (ADN)	: UN 1159 DIISOPROPYL ETHER, 3, II
Transport document description (RID)	: UN 1159 DIISOPROPYL ETHER, 3, II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
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IMDG	
Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
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ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
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ADN	
Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3
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RID	
Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3
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14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: II
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	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	33 1159
Tunnel restriction code (ADR)	: D/E
EAC code	: 3YE
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: E
Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: -29°C c.c.
MFAG-No	: 127
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341

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PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3H
- Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: Т
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)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
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

DI-iso-PROPYL ETHER AR/ACS is not on the REACH Candidate List DI-iso-PROPYL ETHER AR/ACS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference

: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 598)

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12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
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:

Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H336	May cause drowsiness or dizziness
R11	Highly flammable
R19	May form explosive peroxides
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable

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