SAFETY DATA SHEET



DIISOPROPYL ETHER

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	108-20-3
EC number:	203-560-6
1.2 SYNONYMS:	Isopropyl etherDiisopropyl oxide

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2) Specific target organ toxicity - single exposure (Category 3)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H225: Highly flammable liquid and vapor. H336: May cause drowsiness or dizziness.
Precautionary Statements: YOUR CHEM	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. P242: Use non-sparking tools.



2.7 Othor borowder	P243: Take action to prevent static discharges. P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards: Inhalation:	can cause dizziness, headache, respiratory irritation, and central nervous system depression.
Ingestion:	can cause nausea, vomiting, abdominal pain, and may lead to central nervous system depression or aspiration into the lungs, which can be fatal.
Skin Contact:	may cause irritation, dryness, or defatting of the skin with prolonged or repeated exposure.
Eye contact:	can cause irritation, redness, and watering of the eyes.
Chronic Exposure:	may lead to liver and kidney damage, central nervous system effects, and increased risk of developing chemical sensitivity or dermatitis.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as skin disorders, respiratory diseases (e.g., asthma or bronchitis), and eye conditions due to its irritating and sensitizing effects.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 108-20-3
	DIISOPROPYL ETHER
Identification number(s):	EC number: 203-560-6



SECTION 4: First aid measures

(1December of first sid	
4.1 Description of first aid	
measures	
General information:	
After inhalation:	If breathed in, move person into
ECTI	fresh air. If not breathing, give
	artificial respiration. Consult a
	physician.
After skin contact:	Remove contaminated clothing
	immediately .Wash with plenty of
	water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty
	of water for at least 15 minutes.
	consult a physician.
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After swallowing:	Rinse mouth with water.
	Immediately after ingestion. If
	conscious, make victim drink two
	glasses at most immediately. Never
	give anything by mouth to an
	unconscious person. Do not induce
	vomiting. Consult a physician.
4.2 Most important symptoms	may cause dizziness, headache,
and effects, both acute and	nausea, respiratory and skin
delayed:	irritation acutely, with delayed
	effects including central nervous
	system depression, liver and kidney
	damage, and dermatitis.
4.3 Indication of any immediate	Treat symptomatically.
medical attention and special	
treatment needed:	

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Alcohol-resistant
	foam.
5.2 Special hazards arising from	Carbon oxides.
the substance or mixture:	



5.3 Advice for firefighters:	Wear fully protective suit, safety
	glasses and respiratory device. Cool
	tanks/drums with water
	spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

C1 Daniel and a series	
6.1 Personal precautions,	Use personal protective
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
	Evacuate personnel to safe areas.
	Beware of vapours accumulating
	to form explosive concentrations.
	Avoid dust accumulation. Seek
	medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
	drains.
6.3 Methods and material for	Take up spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
	return in its original container.
	Clean contaminated surfaces with
	an excess of water. Wash clothing
	and equipment after handling.

SECTION 7: Handling and storage

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7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material



	Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed
	Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place.
	Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good
	industrial hygiene and safety
	practice. Wash hands before
	breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks,
VOUD OUT MI	wearing anti chemical gloves,
YUHKLHEMI	rubber gloves, etc.
General protective and hygienic	Eyes, body and hand protection,
measures:	maintain indoor air unobstructed.
	Wear protective equipment.
	Respiratory protection: Required.



Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	
and chemical properties	
General Information	
Appearance: Form:	Liquid
Colour:	Colorless
Odour:	Ether like
pH-value:	Not applicable
Melting point/Melting range:	-60°C
Boiling point/Boiling range:	69°C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	415°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	-28°C
Danger of explosion:	Yes
Explosion limits: Lower:	1.4%
Explosion limits: Upper:	22%
Vapour pressure:	165 mmHg (at 20 °C)
Density at 20 °C:	0.725 g/cm ³
Relative density:	0.725
Vapour density:	3.5
Evaporation rate:	Not determined



Solubility in / Miscibility with- water at 20 °C:	Slightly soluble
Partition coefficient:(n- octanol/water)	2.2
Viscosity:	0.38 mPa·s at 25 °C

SECTION 10: Stability and reactivity

10.1 Reactivity	Diisopropyl ether is highly flammable and may form explosive peroxides on prolonged exposure to air or light.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	May undergo hazardous polymerization or explosive peroxide formation if not properly stabilized; reacts violently with
10.4 Conditions to avoid	strong oxidizers. Excessive heat, open flames, spark, Prolonged exposure to air and sunlight
10.5 Incompatible materials	Strong oxidizing agents (e.g., peroxides, nitric acid, chromates), strong acids, and bases; contact with air can lead to peroxide buildup.
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide, explosive peroxides.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects	DAL FARINER
Acute Toxicity:	LD50 (Oral, Rat): 4.600 mg/kg LD50 (Dermal, Rabbit): no data available LC50 (Inhalation Rat): no data available



Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity -	may cause respiratory damage
single exposure:	
Specific target organ toxicity -	No data available
repeated exposure:	
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	Not biodegradable

SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): no data available
Aquatic toxicity:	EC50(daphnia): 190 mg/l (48 hr)
Aquatic toxicity:	
	ErC50(algae): 2.249 mg/l (3 hr)
12.2 Persistence and	Not Biodegradable
degradability:	
12.3 Bioaccumulative potential:	Moderate bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Sand, water and detergent.



SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	1159
IMDG, IATA:	
14.2 UN proper shipping name ·	DIISOPROPYL ETHER
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	3
ADR, ADN, IMDG, IATA :	1076
14.4 Packing group · ADR, IMDG,	2
IATA:	
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is classified in listed
regulations/legislation specific	substances as flammable
for the substance or mixture	substances.
Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.