

SAFETY DATA SHEET

DI-ISOPROPYL ETHER (DIPE), 99%

CAS No.: 108-20-3

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Di-Isopropyl Ether (DIPE), 99%
CAS Number	108-20-3
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Danger
HAZARD CLASSIFICATION • Flammable liquid - Category 2 • Skin irritation - Category 2 • Serious eye irritation - Category 2A • Specific target organ toxicity, single exposure - Category 3 (narcotic effects)	
HAZARD STATEMENTS • H225 - Highly flammable liquid and vapour • H315 - Causes skin irritation • H319 - Causes serious eye irritation • H336 - May cause drowsiness or dizziness • EUH019 - May form explosive peroxides	
PRECAUTIONARY STATEMENTS • P210 - Keep away from heat, sparks, open flames and hot surfaces; no smoking • P233 - Keep container tightly closed • P240 - Ground/bond container and receiving equipment • P241 - Use explosion-proof electrical/ventilating/lighting equipment • P261 - Avoid breathing vapours • P280 - Wear protective gloves/eye protection/face protection • P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing • P370+P378 - In case of fire, use extinguishing media suitable for the surrounding fire • P403+P235 - Store in a well-ventilated place and keep cool	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Di-Isopropyl Ether (DIPE), 99%
CAS Number	108-20-3
Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic sharp, ether-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and seek medical attention if irritation persists.
Skin Contact	Wash off with plenty of water and soap; seek medical attention if irritation persists.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing; seek medical attention if symptoms of dizziness persist.
Ingestion	Rinse mouth; do NOT induce vomiting due to aspiration risk; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, alcohol-resistant foam; water spray to cool exposed containers.
Unsuitable Extinguishing Media	Avoid a straight/high-pressure water stream, which can spread the fire.
Special Hazards	Highly flammable, very low-flash-point liquid producing vapor that readily forms explosive mixtures with air; can form explosive peroxides on prolonged storage/exposure to air and light, which may detonate on concentration; combustion produces carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Measures	Eliminate all ignition sources, ventilate the area, contain the spill with inert absorbent, and collect for disposal using non-sparking tools; check for peroxide formation before handling aged material.
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7. HANDLING AND STORAGE

Handling Precautions	Use only with adequate ventilation and explosion-proof equipment, keep away from heat/sparks/open flame, use grounded/bonded equipment, avoid inhalation and eye/skin contact, and use/store with a peroxide inhibitor, testing periodically for peroxide accumulation.
Storage Conditions	Store in a cool, well-ventilated, flammables-rated area away from heat, light and oxidizers, in tightly closed, inhibited containers; avoid prolonged storage and test for peroxides before use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	ACGIH/OSHA guidance for diisopropyl ether commonly cites ~250 ppm TWA (310 ppm STEL); use chemical-resistant gloves (e.g., Viton, laminate film), chemical splash goggles, and a NIOSH-approved organic vapor respirator with explosion-proof local exhaust ventilation where vapor exceeds exposure limits.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic sharp, ether-like odor.
Boiling Point	~68 C
Melting Point	~-60 C
Flash Point	~-28 C (closed cup)
Density / Specific Gravity	~0.725 g/cm ³ at 20 C
Water Solubility	Slightly soluble, ~9 g/L at 20 C
pH Value	Not applicable (non-aqueous, essentially neutral organic liquid)

10. STABILITY AND REACTIVITY

Stability	Stable when inhibited and stored properly; can slowly form explosive peroxides on exposure to air and light over time, particularly in the absence of stabilizer.
Incompatible Materials	Strong oxidizers, strong acids, and materials that can catalyze peroxide formation/decomposition.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion; peroxide decomposition products.

11. TOXICOLOGICAL INFORMATION

Summary	Causes skin and eye irritation; vapor has narcotic/CNS-depressant effects (headache, dizziness, drowsiness) at elevated concentrations; not classified as a carcinogen, mutagen or reproductive toxicant based on available data.
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12. ECOLOGICAL INFORMATION

Summary	Not expected to be significantly persistent or bioaccumulative; low-to-moderate aquatic toxicity; not classified as hazardous to the aquatic environment under standard GHS criteria based on available data.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous waste (flammable liquid, peroxide-forming) through a licensed waste management/incineration facility in accordance with local regulations; test aged waste for peroxide content before handling/disposal.
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14. TRANSPORT INFORMATION

UN Number	UN1159
Transport Hazard Class	Class 3 (Flammable liquid)
Packing Group	I

15. REGULATORY INFORMATION

Notes	Used as a high-octane fuel component and industrial/extraction solvent; classified as highly flammable under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN1159, Class 3, Packing Group I; peroxide-forming ether requiring periodic testing per standard laboratory/industrial safety practice.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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+91 - 9840284032, 9176135357
+91 - 44 - 25393652, 42130281
sales@surajchemicals.com
surajchemicals@yahoo.com

No 92, Govindappa Naicken Street
Shiva Complex, Chennai - 600001
www.surajchemicals.com
GST NO : 33ACEPV8190L1ZZ

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