

SAFETY DATA SHEET

ISO HEPTANE

CAS No.: 646-04-8

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	Iso Heptane
CAS Number	646-04-8
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 • Aspiration hazard - Category 1 • Skin irritation - Category 2 • Specific target organ toxicity, single exposure - Category 3 (narcotic effects) • Acute aquatic toxicity - Category 1 • Chronic aquatic toxicity - Category 1	
HAZARD STATEMENTS • H225 - Highly flammable liquid and vapour • H304 - May be fatal if swallowed and enters airways • H315 - Causes skin irritation • H336 - May cause drowsiness or dizziness • H400 - Very toxic to aquatic life • H410 - Very toxic to aquatic life with long lasting effects	
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 • P273 - Avoid release to the environment • P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor • P331 - Do NOT induce vomiting • P302+P352 - IF ON SKIN: wash with plenty of water • P403+P235 - Store in a well-ventilated place and keep cool	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Iso Heptane
CAS Number	646-04-8
Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic gasoline-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; seek medical attention if irritation persists.
Skin Contact	Remove contaminated clothing and wash skin with plenty of soap and water; 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	Do NOT induce vomiting due to aspiration hazard; rinse mouth; 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, low-flash-point liquid producing vapor that readily forms explosive mixtures with air and may travel along the ground to an ignition source; 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, prevent entry into drains/waterways (very toxic to aquatic life), and collect for disposal using non-sparking tools.
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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, and avoid inhalation and skin contact.
Storage Conditions	Store in a cool, well-ventilated, flammables-rated area away from heat, light and oxidizers, in tightly closed containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA/ACGIH guidance for heptane isomers commonly cites ~400-500 ppm TWA; use chemical-resistant gloves (nitrile, Viton), 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 gasoline-like odor.
Boiling Point	~90-99 C (isomer-dependent; typical grade ~90 C)
Melting Point	~-118 C
Flash Point	~-4 to 0 C (closed cup)
Density / Specific Gravity	~0.68-0.69 g/cm3 at 20 C
Water Solubility	Practically insoluble in water
pH Value	Not applicable (non-aqueous hydrocarbon liquid)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion.

11. TOXICOLOGICAL INFORMATION

Summary	Aspiration hazard if swallowed; causes skin 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	Very toxic to aquatic organisms with long-lasting effects; low water solubility with potential for bioaccumulation; should be strictly prevented from entering waterways.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous waste (flammable liquid) through a licensed waste management/incineration facility in accordance with local regulations; do not discharge to sewers or waterways.
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14. TRANSPORT INFORMATION

UN Number	UN1206
Transport Hazard Class	Class 3 (Flammable liquid)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Used as an industrial/laboratory solvent and octane-rating reference/blending component; classified as highly flammable with significant aquatic hazard under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN1206 'Heptanes', Class 3, Packing Group II.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
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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.

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