

SAFETY DATA SHEET

ISOBUTANOL

CAS No.: 78-83-1

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	Isobutanol
CAS Number	78-83-1
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 3 - Serious eye damage - Category 1 - Specific target organ toxicity, single exposure - Category 3 (respiratory irritation)	
HAZARD STATEMENTS - H226 - Flammable liquid and vapour - H315 - Causes skin irritation - H318 - Causes serious eye damage - H335 - May cause respiratory irritation	
PRECAUTIONARY STATEMENTS - P210 - Keep away from heat, sparks, open flames and hot surfaces; no smoking - P233 - Keep container tightly closed - P264 - Wash exposed skin thoroughly after handling - 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 - P310 - Immediately call a POISON CENTER or doctor - 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	Isobutanol
CAS Number	78-83-1
Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic sweetish, musty alcohol odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and get immediate medical attention.
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 respiratory irritation persists.
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, or water spray/fog.
Unsuitable Extinguishing Media	Avoid a straight/high-pressure water stream, which can spread the fire.
Special Hazards	Flammable liquid producing vapor that can form explosive mixtures with air; combustion produces carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Measures	Eliminate ignition sources, ventilate the area, contain the spill with inert absorbent, prevent entry into drains/waterways, and collect for disposal using non-sparking tools.
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7. HANDLING AND STORAGE

Handling Precautions	Use with adequate ventilation, keep away from heat/sparks/open flame, use grounded/bonded equipment, and avoid eye/skin contact.
Storage Conditions	Store in a cool, well-ventilated area rated for flammable liquids, away from oxidizers and ignition sources, in tightly closed containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA PEL / ACGIH TLV ~50 ppm TWA; use chemical-resistant gloves (nitrile, neoprene), chemical splash goggles/face shield, and a NIOSH-approved organic vapor respirator where vapor exceeds exposure limits.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic sweetish, musty alcohol odor.
Boiling Point	~108 C
Melting Point	~-108 C
Flash Point	~28-34 C (closed cup)
Density / Specific Gravity	~0.80-0.81 g/cm3 at 20 C
Water Solubility	~85 g/L at 20 C (moderately soluble)
pH Value	Not applicable (non-aqueous, essentially neutral organic liquid)

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Summary	Causes serious eye damage and skin irritation; vapor may cause respiratory tract irritation and, at high concentrations, mild CNS effects (headache, dizziness); low acute oral toxicity (LD50, rat, roughly 2,400-2,900 mg/kg); not classified as a carcinogen, mutagen or reproductive toxicant based on available data.
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12. ECOLOGICAL INFORMATION

Summary	Readily biodegradable with low bioaccumulation potential; not expected to be significantly hazardous to aquatic organisms at normal use/spill concentrations.
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13. DISPOSAL CONSIDERATIONS

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

UN Number	UN1212
Transport Hazard Class	Class 3 (Flammable liquid)
Packing Group	III

15. REGULATORY INFORMATION

Notes	Widely used industrial solvent and chemical intermediate (esters, plasticizers); classified as flammable with serious eye damage potential under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN1212, Class 3, Packing Group III.
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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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