



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Iso-Butanol *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS 78-83-1 EC 201-148-0 SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS05

Corrosive / Serious Eye
Damage

GHS07

Harmful / Irritant

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE
COMPANY

Product Name	Iso-Butanol
Product Type	Isobutanol — solvent / industrial chemical
Chemical Family	Aliphatic Alcohol
CAS No.	78-83-1
EC No.	201-148-0
Intended Use	Industrial / professional use as described on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/iso-butanol
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3; Skin Irrit. 2; Eye Dam. 1; Acute Tox. 4 (inhalation); STOT SE 3

Signal Word DANGER



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GHS Pictograms

GHS02 (Flammable Liquid) | GHS05 (Serious Eye Damage) | GHS07
(Harmful / Irritant)

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H303 — May be harmful if swallowed (non-standard; see flags)
- H305 — May be harmful if swallowed and enter airways (non-standard; see flags)
- H313 — May be harmful in contact with skin (non-standard; see flags)
- H319 — Causes serious eye irritation (see flags — potential conflict with H318)

PRECAUTIONARY — PREVENTION

- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Iso-Butanol (Isobutanol; 2-Methyl-1-propanol)	78-83-1	201-148-0	100	Flam. Liq. 3; Skin Irrit. 2; Eye Dam. 1; Acute Tox. 4 (inhal.); STOT SE 3

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep comfortable for breathing. If symptoms persist or breathing is difficult, seek medical attention.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water. Seek medical attention if irritation or symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention — product causes serious eye damage (H318).
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Product causes serious eye damage (H318) and is harmful if inhaled (H332). STOT SE 3 — may cause drowsiness, dizziness or respiratory irritation.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry powder, CO ₂ , alcohol-resistant foam, or water fog. Use media appropriate to the surrounding fire.
Unsuitable Media	Direct high-pressure water jet — may spread burning liquid.
Specific Hazards	Flammable liquid and vapour (Class 3). Flammable vapours may form explosive mixtures with air; vapours are heavier than air (vapour density 2.55) and may travel to distant ignition sources and flash back. Containers may rupture when heated. Combustion produces carbon oxides and irritating or toxic fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Firefighters should not be exposed without full protective equipment.
Special Procedures	Evacuate non-essential personnel. Use explosion-proof equipment. Cool containers exposed to heat with water spray. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area. Remove ignition sources. Wear appropriate PPE as described in Section 8. Keep unnecessary personnel away. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Avoid uncontrolled release to the environment.
Containment / Clean-up	Absorb spilled material with inert absorbent (sand, vermiculite, or dry earth). Collect material into labelled, compatible, closable containers for disposal through an approved waste contractor. Do not use flammable solvents for clean-up.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation (local exhaust or forced-air ventilation). Avoid contact with skin, eyes and clothing. Avoid breathing vapours. Keep away from heat, sparks and open flames. Use explosion-proof
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	equipment and non-sparking tools. Ground and bond containers when transferring.
Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed compatible containers in a cool, dry, well-ventilated place. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature (below 25°C preferred). Keep away from heat sources and direct sunlight.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride under elevated temperature.
Segregation	Segregate from food, drink, animal feed, oxidisers and other incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Iso-Butanol (CAS 78-83-1): OSHA PEL 100 ppm (300 mg/m ³) TWA; ACGIH TLV 50 ppm (152 mg/m ³) TWA. STEL and India-specific OEL: verify with local authority / NIOSH/ACGIH/EU/UK current listings. Apply ALARA / good industrial hygiene where no local limit is established.
Engineering Controls	Use closed handling systems, local exhaust ventilation, or forced-air ventilation to maintain exposure below OEL. Use explosion-proof ventilation equipment and grounding for flammable liquid handling.
Respiratory Protection	Where ventilation is inadequate to control exposure: use a NIOSH/EN 136-approved organic vapour respirator. Use SCBA in emergencies or confined-space entry.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl or neoprene; select thickness and breakthrough time for task). Eyes/Face: EN 166 / ANSI Z87.1 chemical-splash goggles; add face shield where splashing risk is high. Body: chemical-resistant clothing or apron; antistatic PPE where flammable vapours may occur; safety footwear. Eyewash station and safety shower must be accessible in work area.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless, mobile liquid
Odour	Sweet, musty / winey odour
Odour Threshold	Not established in reviewed source — verify via AIHA / OSHA documentation
pH	Not applicable (pure organic liquid; not aqueous solution)
Melting / Freezing Point	-108°C (-162°F) [NTP, 1992] — CORRECTED: source value was printed under Boiling Point
Boiling Point / Range	107–108°C (225°F) at 760 mmHg [NTP, 1992] — CORRECTED: source value was printed under Flash Point
Flash Point	28°C (82°F) — closed cup; known reference value (NFPA, NIOSH). FLAGGED: source had this field populated with the boiling point figure; correct flash point restored from chemistry reference.
Auto-ignition Temperature	427°C (800°F) [USCG, 1999] — CORRECTED: source value was printed under Vapour Pressure
Flammability Limits	LEL 1.7% v/v; UEL 10.6% v/v in air — reference values (NFPA / NIOSH); verify with supplier SDS
Vapour Pressure	~10 mmHg at 21.7°C (71.1°F); ~9 mmHg at 20°C (68°F) [NTP, 1992] — CORRECTED: source value was printed under Relative Density
Vapour Density (air = 1)	2.55 (heavier than air; will sink) [NTP, 1992] — CORRECTED: source value was printed under Solubility in Water
Relative Density	0.802 at 20°C (68°F) [USCG, 1999] — CORRECTED: source value was printed under Log Pow
Solubility in Water	50–100 mg/mL at 16°C (approx. 85 g/L; slightly soluble) [NTP, 1992] — CORRECTED: source value was printed under Evaporation Rate
Log Pow (Partition Coeff.)	0.76 (log Kow) — CORRECTED: source value was printed under Viscosity
Evaporation Rate	See supplier SDS for grade-specific value (relative to n-butyl acetate = 1)
Viscosity	4.0 mPa·s at 20°C — CORRECTED: source value appeared on the Reactivity line at end of section
VOC Content	Assess per applicable regional VOC regulations; verify from supplier grade-specific SDS



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, sparks, open flames, direct sunlight, and contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern under ambient blending or storage conditions.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating or toxic fumes may be formed in fire or on contact with strong oxidisers.
Hazardous Reactions	No hazardous reactions under normal storage conditions when handled and stored correctly. Will not occur unless product contacts strong oxidisers or ignition sources.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Classified Acute Tox. 4 (see Section 2). Numeric LD ₅₀ data: LD ₅₀ (rat, oral) ~2460 mg/kg (NIOSH/PubChem) — confirm with supplier SDS or ECHA dossier.
Acute Dermal Toxicity	Not specifically classified for dermal acute toxicity; causes skin irritation (H315). Confirm numeric data with supplier SDS.
Acute Inhalation Toxicity	Classified Acute Tox. 4 (H332 — Harmful if inhaled). LC ₅₀ (rat, 4h) — verify from supplier/ECHA; vapours irritate respiratory tract and may cause narcosis at high concentrations.
Skin Irritation	Causes skin irritation (H315 — Skin Irrit. 2). De-fats skin on prolonged/repeated contact.
Eye Irritation	Causes serious eye damage (H318 — Eye Dam. 1). Immediate and thorough irrigation required on contact.
Sensitisation	No evidence of skin or respiratory sensitisation identified in reviewed data; confirm with supplier SDS.
Carcinogenicity	Not classified as carcinogenic. No evidence from reviewed data; verify with IARC/ACGIH/supplier if required for registration.
Mutagenicity	Not classified as mutagenic. No evidence from reviewed data; confirm with supplier SDS or ECHA dossier.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute aquatic classification identified in Section 2. LC ₅₀ / EC ₅₀ numeric data not universally verified in reviewed sources; avoid release to water bodies.
Persistence / Degradability	Isobutanol is expected to be readily biodegradable; verify from ECHA or PubChem data where required for registration or export compliance.
Bioaccumulation	Low bioaccumulation potential expected given log Kow ≈ 0.76 (below BCF trigger of log Kow 3.0); confirm with supplier/ECHA BCF data.
Mobility in Soil	Slightly soluble in water; may leach into groundwater. Prevent uncontrolled release to soil. Assess mobility from solubility and adsorption potential.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local/national hazardous waste regulations. Do not pour down drains or to the environment.
Contaminated Packaging	Empty containers may retain residues and flammable vapours; handle as hazardous until cleaned or disposed of by an approved contractor.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and State Pollution Control Board requirements. Assign waste code according to actual process and applicable regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1212	UN 1212	UN 1212
Proper Shipping Name	ISOBUTANOL (ISOBUTYL ALCOHOL)	ISOBUTANOL (ISOBUTYL ALCOHOL)	Isobutanol (Isobutyl alcohol)
Class	3	3	3



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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Packing Group	III	III	III
Marine Pollutant	No	No	N/A

UN 1212, Class 3 (Flammable Liquid), Packing Group III. Use UN-certified drum for international transport labelled with Class 3 placard, UN 1212, PG III, and product name. Verify current ADR/IMDG/IATA requirements with carrier before each shipment. ADR tunnel restriction: verify current; IMDG EmS: F-E, S-D (verify with current IMDG Code).

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH registration/import obligations and CLP classification/labelling requirements. Classified and labelled according to GHS/CLP classification listed in Section 2.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable MSIHC Rules 1989 (as amended), Hazardous and Other Wastes Rules 2016, Motor Vehicles Act transport rules, Factories Act workplace chemical requirements, and CPCB / SPCB pollution-control requirements.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify/label using Section 2 classification; bilingual SDS/label may be required. China GB/T SDS requirements where marketed in China. Australia AICS: verify inventory status before import. Middle East/GCC: observe applicable GHS-aligned local requirements.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS



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-
- H226 — Flammable liquid and vapour
-
- H303 — May be harmful if swallowed (non-standard regional code — verify applicability for target market)
-
- H305 — May be harmful if swallowed and enters airways (non-standard regional code — verify applicability for target market)
-
- H313 — May be harmful in contact with skin (non-standard regional code — verify applicability for target market)
-
- H315 — Causes skin irritation
-
- H318 — Causes serious eye damage
-
- H319 — Causes serious eye irritation (note: H318 supersedes H319 under GHS — verify final classification with supplier)
-
- H332 — Harmful if inhaled
-
- H335 — May cause respiratory irritation
-
- H336 — May cause drowsiness or dizziness
-