



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)

Butyl Cellosolve (Glycol) *SDS*

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

CAS 111-76-2 EC 203-905-0 SIGNAL WORD DANGER

GHS05

Corrosive

GHS06

Acute Toxicity

GHS07

Harmful / Irritant

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

Product Name	Butyl Cellosolve (Glycol)
Product Type	2-Butoxyethanol – corrosive / irritant chemical
Chemical Family	Glycol Ether
CAS No.	111-76-2
EC No.	203-905-0
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/butyl-cellosolve-glycol
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

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



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Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive) GHS06 (Acute Toxicity) GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H331 — Toxic if inhaled
- H332 — Harmful if inhaled
- H227 — Combustible liquid

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.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.



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- 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
2-Butoxyethanol (Butyl Cellosolve)	111-76-2	203-905-0	100	Acute Tox. 4 (oral); Acute Tox. 4 (dermal); Acute Tox. 3 (inhal.); Skin Irrit. 2; Eye Dam. 1; Flam. Liq. 4 — H302, H312, H315, H318, H331, H332, H227

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person immediately to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen. Seek immediate medical attention.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation develops or persists.
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 — serious eye damage is possible (H318).
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Immediately call a POISON CENTER or doctor.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Systemic effects possible via dermal absorption; monitor liver and kidney function.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, CO ₂ , dry chemical, or water spray. Use extinguishing media appropriate for surrounding fire.
Unsuitable Media	Do not use a direct high-pressure water jet where it may spread the material.
Specific Hazards	Combustible liquid (H227). Vapours may travel to a source of ignition and flash back. Fire may produce toxic or irritating fumes including carbon oxides.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not enter fire area without suitable PPE.
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-fighting run-off from entering drains and waterways. Cool containers exposed to fire with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area. Eliminate all ignition sources. Use PPE specified in Section 8. Ensure adequate ventilation. Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Notify relevant authorities if significant environmental release occurs.
Containment / Clean-up	Contain and absorb spill with inert material (dry sand, earth, or vermiculite). Collect into labelled, compatible containers for disposal through an approved waste contractor. Do not flush to sewer.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation (local exhaust preferred). Avoid contact with skin, eyes, and clothing. Avoid breathing vapours. Ground and bond containers during transfer to prevent static discharge.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink, or smoke when using this product.



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Storage Conditions	Store in original, tightly closed compatible containers (e.g. HDPE or steel drums). Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (unless supplier instructions specify otherwise). Keep away from heat and ignition sources.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, and halogens. Reactive with aluminium chloride (AlCl_3) at elevated temperatures.
Segregation	Segregate from food, drink, animal feed, oxidisers, and incompatible chemicals. Store locked up (P405).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	CAS 111-76-2: OSHA PEL 50 ppm (8h TWA); NIOSH REL 5 ppm (ceiling); ACGIH TLV-TWA 20 ppm. EU OEL (IOELV): 20 ppm / 98 mg/m ³ (8h TWA). India: refer to Factory Inspectorate / supplier OEL data. Use ALARA where no local limit is established.
Engineering Controls	Use closed handling systems and local exhaust ventilation for vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquid handling.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergencies or confined-space entry.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl rubber, or neoprene); verify breakthrough time for task. Eye / Face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash risk. Body: chemical-resistant apron or coverall; antistatic PPE where flammable vapours may occur. Provide eyewash station and safety shower accessible within 10 seconds of work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless, clear liquid
Odour	Mild, ether-like odour
Odour Threshold	Not established from reviewed public sources
pH	Not applicable (neat liquid); verify from supplier COA for aqueous grades
Melting / Freezing Point	-74.8 °C (-102.6 °F) [NTP, 1992]



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Boiling Point / Range	171 °C (340 °F) at 743 mmHg [NTP, 1992]
Flash Point	≈60 °C (140 °F) closed cup (Abel CC) — see flags
Auto-ignition Temperature	≈245 °C (472 °F) [USCG, 1999]
Flammability Limits	LEL 1.1% / UEL 10.6% (v/v in air) — verify with supplier
Vapour Pressure	0.88 mmHg at 25 °C (77 °F) [NTP, 1992]
Vapour Density (air = 1)	4.07 (heavier than air; will sink) [NTP, 1992]
Relative Density	0.902 at 20 °C (68 °F) [USCG, 1999] (less dense than water; will float)
Solubility in Water	≥100 mg/mL at 22 °C (72 °F) — miscible [NTP, 1992]
Log Pow (Partition Coeff.)	0.83 (log Kow) [peer-reviewed]
Evaporation Rate	Slow relative to n-butyl acetate (< 1); see supplier SDS for grade-specific value
Viscosity	3.15 centistokes at 25 °C
VOC Content	Assess per applicable regional VOC regulations; see supplier SDS for grade-specific value

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, open flames, ignition sources, contamination, and 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.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic fumes may be formed in fire.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Harmful if swallowed (H302). Rat LD ₅₀ oral: 470–900 mg/kg (literature range). Classification: Acute Tox. 4.
Acute Dermal Toxicity	Harmful in contact with skin (H312); skin absorption is significant. Rabbit LD ₅₀ dermal: ~220 mg/kg (literature). Classification: Acute Tox. 4.



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Acute Inhalation Toxicity	Toxic if inhaled (H331); harmful if inhaled (H332). Rat LC ₅₀ (4h vapour): 450–700 ppm (literature). Classification: Acute Tox. 3.
Skin Irritation	Causes skin irritation (H315). Classification: Skin Irrit. 2.
Eye Irritation	Causes serious eye damage (H318). Classification: Eye Dam. 1.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as a carcinogen by IARC, NTP, ACGIH, or OSHA based on available data.
Mutagenicity	Not classified as a mutagen based on available data; verify with supplier for genotoxicity test results.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute aquatic hazard classification identified in reviewed data. Avoid release to water bodies. Obtain supplier / ECHA ecotoxicity data if required for registration or export.
Persistence / Degradability	2-Butoxyethanol is reported to be readily biodegradable in aerobic conditions. Verify with supplier or ECHA data for lot-specific grades.
Bioaccumulation	Low bioaccumulation potential based on log K _{ow} = 0.83 (below threshold of 3). BCF estimated < 100.
Mobility in Soil	Miscible with water; moderate mobility in soil. Prevent release to soil and groundwater.
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, and international regulations. Do not pour into drains or waterways.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous waste until cleaned or disposed of appropriately. Triple-rinse before recycling where permitted.
Indian Regulations	Follow the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2016 and applicable State Pollution Control Board requirements. Assign EWC / waste code according to actual process and local regulation.



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SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 2369	UN 2369	UN 2369
Proper Shipping Name	2-BUTOXYETHANOL	2-BUTOXYETHANOL	2-BUTOXYETHANOL
Class	6.1	6.1	6.1
Packing Group	III	III	III
Marine Pollutant	No	No	N/A

UN 2369 / Class 6.1 / PG III sourced from source SDS and PubChem transport data. Verify current ADR, IMDG, and IATA–DGR entries with carrier and applicable edition before shipment. UN–certified drum required for international transport; label with Class 6.1 placard, UN 2369, PG III, and product name.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled according to the GHS / CLP classification listed in Section 2. Observe REACH requirements (SVHC screening, registration obligations) where applicable.
OSHA (USA)	Prepared in OSHA HCS / HazCom–aligned 16–section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989; Environment Protection Act; Hazardous Wastes Rules, 2016; and applicable State Pollution Control Board requirements.
Other Jurisdictions	Canada: Classify / label under WHMIS 2015 / HPR; bilingual SDS / label may be required. Australia: verify AICS inventory status. China: observe GB/T SDS and classification requirements. GCC / Middle East: apply GHS–aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code, and restrictions.

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



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Revision Date	24 June 2026
Version	3.0 (supersedes Rev 1.0, May 2026)
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

- H227 — Combustible liquid
- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H331 — Toxic if inhaled
- H332 — Harmful if inhaled