



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)

Benzene *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS **71-43-2**

EC **200-753-7**

SIGNAL WORD **ANGER**

GHS02

Flammable Liquid

GHS07

Irritant

GHS08

Carcinogen / Health Hazard

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

Product Name	Benzene
Product Type	Pure substance
Chemical Family	Aromatic hydrocarbon
CAS No.	71-43-2
EC No.	200-753-7
Intended Use	Industrial solvent and chemical intermediate.
Restrictions on Use	Industrial use only; carcinogenic exposure controls required.
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/benzene
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; Muta. 1B; Carc. 1A; STOT RE 1

Flammable Liquids	Category 2 — H225: Highly flammable liquid and vapour
Aspiration Hazard	Category 1 — H304: May be fatal if swallowed and enters airways
Skin Irritation	Category 2 — H315: Causes skin irritation



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Eye Irritation	Category 2 — H319: Causes serious eye irritation
Mutagenicity	Category 1B — H340: May cause genetic defects
Carcinogenicity	Category 1A — H350: May cause cancer. Benzene is a known human carcinogen (IARC Group 1, OSHA/NIOSH).
STOT Repeated Exposure	Category 1 — H372: Causes damage to organs through prolonged or repeated exposure
Other GHS Hazard Classes	Not classified for unlisted hazard classes based on reviewed public/source data.
Signal Word	DANGER
GHS Pictograms	GHS02 (Flame) GHS07 (Exclamation Mark) GHS08 (Health Hazard)

HAZARD STATEMENTS

- H225 — Highly flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H340 — May cause genetic defects
- H350 — May cause cancer
- H372 — Causes damage to organs through prolonged or repeated exposure

PRECAUTIONARY — PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- 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.



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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.
- 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
Benzene	71-43-2	200-753-100 7		Flam. Liq. 2; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; Muta. 1B; Carc. 1A; STOT RE 1

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air immediately. Keep at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen. Obtain 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 medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting (aspiration hazard). Seek immediate medical advice/attention. If vomiting occurs naturally,



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	keep head low.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Aspiration hazard — do not induce vomiting; airway protection may be required.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical powder, or carbon dioxide (CO ₂). Sand or dry earth for small fires.
Unsuitable Media	Direct high-pressure water jet where it may spread burning material.
Specific Hazards	Highly flammable liquid and vapour. Vapours can travel to ignition sources and flash back. Containers may rupture or explode when heated. Combustion produces carbon monoxide and carbon dioxide.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Use grounded/explosion-proof equipment.
Special Procedures	Evacuate non-essential personnel. Cool containers with water spray from safe distance. Prevent contaminated fire-fighting water from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate non-essential personnel. Eliminate all ignition sources. Use non-sparking tools. Wear appropriate PPE (see Section 8). Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Inform relevant authorities if significant quantities enter waterways or soil.
Containment / Clean-up	Contain spill with sand, earth, or non-combustible absorbent material. Collect material into labelled containers for disposal through an approved hazardous waste contractor. Avoid inhalation of vapours.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.



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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use closed systems with local exhaust ventilation. Ground containers and receiving equipment. Avoid inhalation of vapours and contact with skin and eyes. Use non-sparking tools and explosion-proof equipment.
Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke in areas where benzene is used.
Storage Conditions	Store in original, tightly closed compatible containers in a cool, well-ventilated area away from heat and ignition sources. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (below 30°C recommended). Keep cool.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), halogens, concentrated acids. Reactive with aluminium chloride at elevated temperature.
Segregation	Segregate from food, drink, animal feed, oxidisers, and incompatible chemicals. Store locked up.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Benzene (CAS 71-43-2): Use verified local OEL/STEL where established (OSHA PEL, NIOSH REL, ACGIH TLV, EU IOELV, or India CPCB/Factory Act limits). Apply ALARA / good industrial hygiene practice. Supplier/regional OEL confirmation required.
Engineering Controls	Use closed handling systems and local exhaust ventilation (LEV) for vapour and aerosol control. Use explosion-proof ventilation and grounding for this flammable liquid. Provide emergency eyewash and safety shower.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergencies or unknown concentrations. Select based on airborne concentration and applicable OEL.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl rubber or neoprene); verify breakthrough time for benzene exposure. Eyes/Face: EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash risk.



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Skin/Body: chemical-resistant clothing, apron and safety footwear;
use antistatic PPE where flammable vapours may occur.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid
Odour	Sweet aromatic odour
Odour Threshold	Not established
pH	Not applicable (pure organic liquid)
Melting / Freezing Point	5.5 °C
Boiling Point / Range	80.1 °C
Flash Point	-11 °C (closed cup)
Auto-ignition Temperature	498 °C
Flammability Limits	LEL 1.2% v/v UEL 7.8% v/v
Vapour Pressure	75 mmHg at 20 °C
Vapour Density (air = 1)	2.7
Relative Density	0.88 at 20 °C
Solubility in Water	Slightly soluble (~1.8 g/L at 25 °C)
Log Pow (Partition Coeff.)	2.13
Evaporation Rate	Fast (relative to butyl acetate)
Viscosity	Low viscosity liquid (~0.65 cP at 20 °C)
VOC Content	100% VOC

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, open flames, ignition sources, contamination and contact 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 normal ambient storage.
Hazardous Decomposition	Carbon monoxide and carbon dioxide; irritating or toxic fumes and smoke may be produced in fire conditions.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions. Will not polymerise.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Asp. Tox. 1 (H304): May be fatal if swallowed and enters airways. LD ₅₀ (rat, oral) approx. 930 mg/kg (literature reference; confirm with supplier test data).
Acute Dermal Toxicity	No specific classification for acute dermal toxicity. Causes skin irritation (H315). Absorption through skin possible; remove contaminated clothing immediately.
Acute Inhalation Toxicity	High vapour concentrations cause dizziness, narcosis, respiratory irritation. LC ₅₀ (rat, 4h) approx. 10,000–20,000 ppm (literature; confirm with supplier test data). STOT RE 1 (H372).
Skin Irritation	Skin Irrit. 2 — H315: Causes skin irritation. Dermal absorption is possible; prolonged/repeated contact may cause dermatitis.
Eye Irritation	Eye Irrit. 2 — H319: Causes serious eye irritation.
Sensitisation	Not classified as a skin or respiratory sensitiser.
Carcinogenicity	Carc. 1A — H350: May cause cancer. Known human carcinogen (IARC Group 1, OSHA, NIOSH). Associated with leukaemia and other haematological malignancies following chronic exposure.
Mutagenicity	Muta. 1B — H340: May cause genetic defects. Clastogenic; causes chromosomal aberrations in bone marrow cells. STOT RE 1 — H372: Causes damage to organs (blood, bone marrow) through prolonged or repeated exposure.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Aquatic toxicity data available in literature (e.g., LC ₅₀ Oncorhynchus mykiss 96h ~5.3 mg/L). Not classified as acutely or chronically aquatic toxic in Section 2 based on reviewed data; avoid release to the environment.
Persistence / Degradability	Benzene is readily biodegradable under aerobic conditions. However, do not assume ready biodegradability in all environmental matrices; obtain supplier/ECHA data for registration purposes.
Bioaccumulation	Log Kow 2.13 — low to moderate bioaccumulation potential. BCF data should be obtained from supplier or ECHA where required.
Mobility in Soil	Moderately mobile in soil due to water solubility and low Koc. Volatile; can partition to air. Prevent release to soil and groundwater.



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Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.
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SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1114	UN 1114	UN 1114
Proper Shipping Name	BENZENE	BENZENE	BENZENE
Class	3	3	3
Packing Group	II	II	II
Marine Pollutant	No	No	—
Tunnel Restriction (ADR)	D/E	—	—
EmS (IMDG)	—	F-E, S-D	—

Carcinogenic flammable liquid. UN-certified drum required for international transport. Label with Class 3 placard, UN 1114, PG II, and product name. Verify current carrier rules and applicable ADR/IMDG/IATA requirements before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled according to CLP Regulation (EC) No 1272/2008 as listed in Section 2. Observe REACH registration, restriction and authorisation requirements where applicable. Observe applicable VOC and environmental directives.
OSHA (USA)	Prepared in OSHA HCS/HazCom aligned 16-section SDS format. Benzene is subject to OSHA 1910.1028 (Benzene Standard) — specific



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	PEL, medical surveillance and recordkeeping requirements apply.
India	Observe applicable Indian MSIHC Rules 1989 (as amended), Factories Act, Environment Protection Act, Hazardous Waste Rules 2016, and CPCB/SPCB requirements. Benzene is listed under Schedule I (carcinogen); enhanced exposure monitoring required.
Other Jurisdictions	Canada WHMIS 2015/HPR: Classify/label using Section 2 classification; bilingual SDS/label and ingredient disclosure required for Canadian sale. China (GB Standards): Use applicable GB/T SDS and classification requirements. Australia (AICS): Check inventory status before import or export. TSCA (USA): Verify inventory/SNUR status before US distribution. Final market placement requires confirmation of 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
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

- H225 — Highly flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H340 — May cause genetic defects
- H350 — May cause cancer
- H372 — Causes damage to organs through prolonged or repeated exposure