



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Phenol (Liquid / Crystal) *SDS*

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

CAS **108-95-2** EC **203-632-7** SIGNAL WORD **DANGER**

GHS06

Toxic

GHS05

Corrosive

GHS08

Health Hazard

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

Product Name	Phenol (Liquid / Crystal)
Product Type	Phenol liquid / crystal
Chemical Family	Phenolic compound
CAS No.	108-95-2
EC No.	203-632-7
Intended Use	Industrial / professional chemical use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Do not use in consumer or medicinal applications unless separately qualified.
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/phenol-liquid-crystal
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Acute Tox. 3 (oral, dermal, inhalation); Skin Corr. 1B; Muta. 2; STOT RE 2



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

Signal Word	DANGER
GHS Pictograms	GHS06 (Toxic) GHS05 (Corrosive) GHS08 (Health Hazard)
Other Hazard Classes	Not classified for unlisted hazard classes based on reviewed source data.

HAZARD STATEMENTS

- H301 — Toxic if swallowed
- H311 — Toxic in contact with skin
- H331 — Toxic if inhaled
- H314 — Causes severe skin burns and eye damage
- H341 — Suspected of causing genetic defects
- H373 — May cause 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.

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



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

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
Phenol	108-95-2	203-632-7	99-100	Acute Tox. 3; Skin Corr. 1B; Muta. 2; STOT RE 2

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove from exposure immediately. Move to fresh air. If breathing is difficult, administer oxygen. Seek urgent medical attention. Phenol can be rapidly absorbed through skin; remove contaminated clothing and wash affected area with water.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with large amounts of water and soap. Phenol is rapidly absorbed dermally — seek urgent medical attention even if symptoms appear mild.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention immediately.
Ingestion	Rinse mouth. Do not induce vomiting. Seek medical advice immediately. Call a POISON CENTER.
Note to Physician	Phenol is a systemic toxin; absorption can occur via all routes. Treat symptomatically. Antidotes: supportive care; polyethylene glycol wash for dermal decontamination has been used. Monitor liver, kidney and CNS function.



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, carbon dioxide, water spray/fog.
Unsuitable Media	Direct high-pressure water jet (may spread material and contaminate waterways).
Specific Hazards	Combustible solid/liquid. Toxic fumes (carbon oxides, phenolic vapour) may form in fire. Containers may rupture when heated. Dust or fine particulate may form combustible or irritating atmospheres; avoid dust clouds and ignition sources.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Isolate fire area; evacuate non-essential personnel.
Special Procedures	Prevent contaminated firefighting run-off from entering drains and waterways. Cool fire-exposed containers with water spray from a safe distance.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use full chemical PPE (see Section 8). Eliminate ignition sources. Ensure adequate ventilation. Avoid skin and eye contact and inhalation of vapour.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if significant environmental release cannot be prevented.
Containment / Clean-up	Contain spill. Collect material into labelled, compatible containers for disposal through an approved waste contractor. Absorb small spills with sand, earth or vermiculite (not sawdust). Avoid generating dust.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid all contact with skin, eyes and clothing. Avoid inhalation of vapour, mist or dust. Use in enclosed systems or with adequate local exhaust ventilation. Eliminate ignition sources when handling molten phenol.
-----------------------------	---



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

Hygiene	Wash hands thoroughly after handling. Remove 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 locked, cool, dry, well-ventilated area away from heat and ignition sources. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (solid form); molten form typically maintained at 45–50 °C. Follow supplier instructions.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens, aluminium chloride at elevated temperature. See Section 10.
Segregation	Segregate from food, drink, animal feed, oxidisers and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Phenol (CAS 108-95-2): ACGIH TLV-TWA 5 ppm (skin notation); OSHA PEL 5 ppm (19 mg/m ³) TWA; EU IOELV 2 ppm (8 mg/m ³) TWA. Verify applicable local/national OEL before use. Apply ALARA / good industrial hygiene where no OEL is established.
Engineering Controls	Use closed handling systems and/or local exhaust ventilation for vapour, mist or aerosol. Use explosion-proof ventilation equipment. Provide eyewash and safety shower at the work location.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergencies or high-concentration exposure.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl, neoprene, PVC or laminate; select for breakthrough time and task duration. Eyes/face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield where splash risk exists. Body: chemical-resistant clothing/apron and safety footwear. Wash after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to pale pink crystalline solid or clear molten liquid.
Odour	Sweet / tarry phenolic odour.
Odour Threshold	Not established.



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

pH	Not applicable in pure form. For aqueous solutions, verify from supplier COA/SDS.
Melting / Freezing Point	Approx. 40–43 °C
Boiling Point / Range	Approx. 181–182 °C
Flash Point	Approx. 79 °C (closed cup)
Auto-ignition Temperature	Approx. 715 °C
Flammability Limits	Not established.
Vapour Pressure	Approx. 0.35 mmHg at 25 °C
Vapour Density (air = 1)	3.2
Relative Density	Approx. 1.06
Solubility in Water	Moderately soluble (approx. 84 g/L at 25 °C)
Log Pow (Partition Coeff.)	Approx. 1.5
Evaporation Rate	Not established.
Viscosity	See supplier specification.
VOC Content	Assess per applicable regional VOC regulations.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, ignition sources, contamination and contact with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating or toxic phenolic fumes may be formed in fire or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. No known hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Toxic if swallowed (H301). Rat LD50 (oral): approx. 317 mg/kg. GHS Acute Tox. 3.
Acute Dermal Toxicity	Toxic in contact with skin (H311). Rabbit LD50 (dermal): approx. 630 mg/kg. Rapidly absorbed through intact skin causing systemic toxicity.



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

Acute Inhalation Toxicity	Toxic if inhaled (H331). Rat LC50 (4 h): approx. 900 ppm. GHS Acute Tox. 3.
Skin Irritation	Causes severe skin burns (H314). Skin Corr. 1B. Phenol produces characteristic white/brown discolouration and anaesthesia on contact.
Eye Irritation	Causes serious eye damage (H314, Skin Corr. 1B category covers eye damage).
Sensitisation	Not classified as a skin or respiratory sensitiser based on reviewed data; verify from supplier/test data.
Carcinogenicity	Not classified as a carcinogen under GHS. Not listed as carcinogen by IARC, NTP or OSHA (verify supplier data for updates).
Mutagenicity	Suspected of causing genetic defects (H341). Muta. 2 (in vitro genotoxicity data).

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Phenol is acutely toxic to aquatic organisms (fish LC50 approx. 35–80 mg/L, 96 h). No aquatic environmental classification applied in Section 2 from reviewed data; obtain supplier/regulatory ecotoxicity data if needed for registration or export. Avoid release.
Persistence / Degradability	Phenol is considered readily biodegradable under aerobic conditions in standard tests. Verify from supplier or ECHA data.
Bioaccumulation	Low bioaccumulation potential (log Pow approx. 1.5; BCF estimated low). Verify from supplier or ECHA data.
Mobility in Soil	Moderately mobile in soil due to water solubility. 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 hazardous waste contractor in accordance with local/national regulations. Do not pour down drains or into watercourses.
Contaminated Packaging	Empty containers may retain hazardous residues; handle as hazardous waste until thoroughly cleaned or disposed of in accordance with local regulations.



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

Indian Regulations

Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and applicable SPCB/CPCB requirements. Assign waste code in accordance with local pollution control authority guidance.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1671	UN 1671	UN 1671
Proper Shipping Name	PHENOL, SOLID	PHENOL, SOLID	PHENOL, SOLID
Class	6.1	6.1	6.1
Packing Group	II	II	II
Marine Pollutant	No	Yes	—

For molten / liquid phenol verify applicable UN entry (UN 2312 PHENOL, MOLTEN) and temperature-controlled transport requirements. Packaging: UN-certified drum or IBC appropriate to the product form. Labelled with Class 6.1 placard, UN number, PG II and product name. EmS (Sea): F-A, S-A. ADR Tunnel Restriction Code: E. Verify current carrier and regulatory rules before each shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Subject to REACH registration requirements. Classified and labelled according to GHS/CLP classification listed in Section 2. Observe applicable workplace chemical, VOC and environmental requirements (EU Directive 2004/37/EC where applicable).

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 Indian MSIHC Rules 1989 (as amended), Factories Act 1948, Environment Protection Act 1986, Hazardous and Other Wastes Rules 2016, and applicable CPCB/SPCB pollution-control and storage/transport requirements.

Other Jurisdictions

Canada WHMIS 2015/HPR: classify/label under WHMIS using Section 2 classification; bilingual SDS and ingredient disclosure may be required. China: apply GB/T SDS and classification requirements where marketed. Australia (AICS): verify inventory status before import/export. Middle East/GCC: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

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
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

- H301 — Toxic if swallowed
- H311 — Toxic in contact with skin
- H331 — Toxic if inhaled
- H314 — Causes severe skin burns and eye damage
- H341 — Suspected of causing genetic defects
- H373 — May cause damage to organs through prolonged or repeated exposure