

**SAFETY DATA SHEET (SDS)****Rev 1.0**

Prepared: May 2026

GHS compliant | Rev 1.0 | Prepared: May 2026

<b>GHS06</b> Toxic	<b>GHS05</b> Corrosive	<b>GHS08</b> Health Hazard
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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY**

<b>Product Name</b>	<b>Phenol (Liquid / Crystal)</b>
<b>Product Type</b>	Phenol liquid/crystal
<b>Chemical Family</b>	Phenolic compound
<b>CAS No. (Phenol (Liquid / Crystal))</b>	108-95-2
<b>CAS No. (Other Component)</b>	N/A
<b>Intended Use</b>	Industrial / professional chemical use as listed on the SPC product page.
<b>Restrictions on Use</b>	Industrial / professional use only. Do not use in consumer or medicinal applications unless separately qualified.
<b>Manufacturer / Supplier</b>	Supreme Petro Chemicals
<b>Address</b>	Periyamet, Chennai - 600 003, Tamil Nadu, India
<b>Emergency Contact</b>	Sudarshan - 8197947045; Sanketh - 8608780096
<b>Email</b>	admin@supremepetrochemicals.com
<b>SDS Revision Date</b>	May 2026
<b>SDS Version</b>	1.0
<b>Product Page URL</b>	<a href="https://www.supremepetrochemicals.com/products/phenol-liquid-crystal">https://www.supremepetrochemicals.com/products/phenol-liquid-crystal</a>

**SECTION 2 HAZARD IDENTIFICATION**

<b>Acute Tox. 3; Skin Corr. 1B; Muta. 2; STOT RE 2</b>	
<b>H301</b>	Toxic if swallowed
<b>H311</b>	Toxic in contact with skin
<b>H331</b>	Toxic if inhaled
<b>H314</b>	Causes severe skin burns and eye damage
<b>H341</b>	Suspected of causing genetic defects
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure
<b>Other GHS hazard classes</b>	Not classified for unlisted hazard classes based on reviewed source data.
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<b>Signal Word</b>	DANGER
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## GHS Pictograms

GHS06 (Toxic) | GHS05 (Corrosive) | GHS08 (Health Hazard)

## 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
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## Precautionary Statements (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 Statements (Response):

- 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.

## Precautionary Statements (Storage &amp; Disposal):

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

**Note:** Percentages are by volume. Full text of H-statements listed in Section 16.

**SECTION 4 FIRST AID MEASURES**

Inhalation	Remove from exposure immediately. Phenol can be rapidly absorbed through skin; remove contaminated clothing and wash with water, then seek urgent medical attention.
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<b>Skin Contact</b>	Remove contaminated clothing. Wash affected skin thoroughly with water and soap where appropriate. Seek medical attention if symptoms persist.
<b>Eye Contact</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
<b>Note to Physician</b>	Treat symptomatically based on exposure route and product hazards.

## SECTION 5 FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use alcohol-resistant foam, dry chemical, carbon dioxide or water spray. Toxic fumes may form in fire.
<b>Unsuitable Media</b>	Direct high-pressure water jet where it may spread the material.
<b>Specific Hazards</b>	Use alcohol-resistant foam, dry chemical, carbon dioxide or water spray. Toxic fumes may form in fire.
<b>Fire &amp; Explosion Risk</b>	Dust or fine particulate may form combustible or irritating atmospheres depending on product. Avoid dust clouds and ignition sources. Containers may rupture when heated.
<b>Protective Equipment for Firefighters</b>	Wear full protective clothing and self-contained breathing apparatus (SCBA).
<b>Special Procedures</b>	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use full chemical PPE. Contain spill, prevent drain entry and collect as toxic/corrosive hazardous waste.
<b>Environmental Precautions</b>	Prevent entry into drains, sewers, soil and watercourses.
<b>Containment Methods</b>	Use full chemical PPE. Contain spill, prevent drain entry and collect as toxic/corrosive hazardous waste.
<b>Clean-up Methods</b>	Collect material into labelled containers for disposal through an approved waste contractor.
<b>Reference to Sections</b>	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

## SECTION 7 HANDLING AND STORAGE

<b>Handling Precautions</b>	Avoid all contact and inhalation. Store locked, cool, ventilated, away from oxidisers and incompatible materials.
<b>Hygiene</b>	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
<b>Storage Conditions</b>	Avoid all contact and inhalation. Store locked, cool, ventilated, away from oxidisers and incompatible materials.
<b>Storage Temperature</b>	Store at ambient temperature unless supplier instructions specify otherwise.
<b>Incompatible Materials</b>	Strong oxidizers and product-specific incompatible substances; see supplier SDS before use.
<b>Packaging</b>	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
<b>Segregation</b>	Segregate from food, drink, animal feed and incompatible chemicals.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component	OEL (8h TWA)	STEL (15 min)	Standard	Notes
Phenol	Use verified local OEL if established; otherwise ALARA/good industrial hygiene	Use verified local STEL/ceiling if established	OSHA/NIOSH/ACGI H/EU/UK/India	CAS 108-95-2; supplier/regional OEL confirmation required.

<b>Engineering Controls</b>	Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids.
<b>Respiratory Protection</b>	If ventilation is inadequate, use a NIOSH/EN respirator: organic vapour, acid gas, ammonia, or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies.
<b>Hand Protection</b>	Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task.
<b>Eye/Face Protection</b>	Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk.
<b>Body Protection</b>	Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur.
<b>Hygiene Measures</b>	Provide eyewash and safety shower where appropriate. Wash after handling.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Colourless to pink crystalline solid or molten liquid.
<b>Odour</b>	Sweet/tarry phenolic odour.
<b>Odour Threshold</b>	Not established.
<b>pH</b>	Not applicable unless supplied/used as an aqueous solution. For acids, alkalis, salts, surfactants and aqueous grades, verify pH from supplier COA/SDS before release.
<b>Melting/Freezing Point</b>	Approx. 40-43 deg C
<b>Boiling Point / Range</b>	Approx. 181-182 deg C
<b>Flash Point</b>	Approx. 79 deg C closed cup
<b>Auto-ignition Temperature</b>	Approx. 715 deg C
<b>Flammability Limits</b>	Not established.
<b>Vapour Pressure</b>	Approx. 0.35 mmHg at 25 deg C
<b>Vapour Density</b>	3.2 (air=1)
<b>Relative Density</b>	Approx. 1.06
<b>Solubility in Water</b>	Moderately soluble
<b>Log Pow (Partition Coeff)</b>	Approx. 1.5
<b>Evaporation Rate</b>	Not established.
<b>Viscosity</b>	See supplier specification.
<b>VOC Content</b>	Assess per applicable regional VOC regulations.
<b>Reactivity</b>	Stable under normal handling when protected from incompatible materials.

**SECTION 10 STABILITY AND REACTIVITY**



<b>Chemical Stability</b>	Stable under recommended storage and handling conditions.
<b>Conditions to Avoid</b>	Avoid heat, ignition sources, contamination and incompatible materials.
<b>Incompatible Materials</b>	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl <sub>3</sub> ) under elevated temperature — not a concern in ambient blending or storage.
<b>Hazardous Decomposition</b>	Carbon oxides and irritating or toxic fumes may be formed in fire.
<b>Hazardous Reactions</b>	No hazardous reactions under normal storage unless noted by product reactivity.
<b>Possibility of Hazardous React.</b>	Will not occur under normal conditions when stored and handled correctly.

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Acute Oral Toxicity</b>	Toxic by oral, dermal and inhalation routes; corrosive; systemic poisoning can occur after skin absorption.
<b>Acute Dermal Toxicity</b>	Toxic by oral, dermal and inhalation routes; corrosive; systemic poisoning can occur after skin absorption.
<b>Acute Inhalation Toxicity</b>	Toxic by oral, dermal and inhalation routes; corrosive; systemic poisoning can occur after skin absorption.
<b>Skin Irritation</b>	Toxic by oral, dermal and inhalation routes; corrosive; systemic poisoning can occur after skin absorption.
<b>Eye Irritation</b>	Toxic by oral, dermal and inhalation routes; corrosive; systemic poisoning can occur after skin absorption.
<b>Sensitisation</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Specific Target Organ (Single)</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Specific Target Organ (Repeat)</b>	Repeated exposure target-organ concern is present in Section 2; verify target organ data from supplier/regulatory sources.
<b>Reproductive Toxicity</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Aspiration Hazard</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Carcinogenicity</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Mutagenicity</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.

## SECTION 12 ECOLOGICAL INFORMATION

<b>Aquatic Toxicity (Acute)</b>	No aquatic classification identified in Section 2 from reviewed data. Numeric ecotoxicity was not universally verified; avoid release.
<b>Aquatic Toxicity (Chronic)</b>	No chronic aquatic classification identified in Section 2. Obtain supplier/ecotoxicity data if needed for registration or export.
<b>Persistence / Degradability</b>	Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability.
<b>Bioaccumulation</b>	Use verified log Kow/BCF data where available; UVCB/petroleum/surfactant materials need supplier formulation data.
<b>Mobility in Soil</b>	Assess from solubility, adsorption potential and product form. Prevent release to soil and groundwater.



<b>Other Adverse Effects</b>	Avoid uncontrolled release to the environment.
<b>Environmental Regulations</b>	Manage releases and waste under applicable local environmental regulations.

### SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste from Product</b>	Dispose of contents through an authorized waste contractor in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers may retain residues; handle as hazardous until cleaned or disposed.
<b>European Waste Code</b>	Assign waste code according to actual process and local regulation.
<b>Indian Regulations</b>	Follow local hazardous waste and pollution control requirements.

### SECTION 14 TRANSPORT INFORMATION

Parameter	UN / ADR (Road)	IMDG (Sea)	IATA (Air)	Notes
<b>UN Number</b>	UN 1671	UN 1671	UN 1671	For molten/liquid phenol verify applicable UN entry and temperature controls
<b>Proper Shipping Name</b>	PHENOL, SOLID	PHENOL, SOLID	PHENOL, SOLID	
<b>Class</b>	6.1	6.1	6.1	Transport class
<b>Packing Group</b>	II	II	II	
<b>Marine Pollutant</b>	No	No	—	
<b>Tunnel Restriction</b>	-	—	—	ADR
<b>EmS (Sea)</b>	—	F-A, S-A	—	IMDG
<b>Special Provisions</b>	Follow applicable ADR requirements.	Follow applicable IMDG requirements.	Follow applicable IATA requirements.	Verify current carrier rules before shipment

Packaging: approved compatible container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 1671, PG II, and product name.

### SECTION 15 REGULATORY INFORMATION

<b>EU / REACH</b>	Observe REACH and CLP requirements where applicable.
<b>EU CLP Regulation</b>	Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2.
<b>EU Directive</b>	Observe applicable workplace chemical, VOC and environmental requirements.
<b>OSHA (USA)</b>	Prepared in OSHA HCS/HazCom aligned 16-section SDS format.
<b>India</b>	Observe applicable Indian MSIHC, workplace, storage, transport, pollution-control and hazardous-waste requirements.
<b>China (GB Standards)</b>	Use applicable GB/T SDS and classification requirements where marketed.
<b>Middle East / GCC</b>	Observe applicable GHS-aligned local requirements.
<b>TSCA (USA)</b>	Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation.
<b>Australia (AICS)</b>	Check inventory status before export or import.
<b>Special Notes</b>	No product-specific special note beyond the classification in Section 2.



<b>Canada WHMIS / HPR</b>	Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure.
<b>Regulatory Scope Limitation</b>	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.

## SECTION 16 OTHER INFORMATION

### 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
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<b>Prepared By</b>	Supreme Petro Chemicals - Technical Department
<b>SDS Standard</b>	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR 16-section SDS format
<b>Revision Date</b>	22 May 2026
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<b>Replaces Version</b>	N/A - Initial Issue
<b>Key Sources</b>	SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 May 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references where available. Accessed May 2026.
<b>Audit Correction Note</b>	Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release.

### DISCLAIMER

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