SAFETY DATA SHEET (SDS)

Rev 1.0

Prepared: April 2026

GHS compliant | Rev 1.0 | Prepared: April 2026

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. (Phenol (Liquid / Crystal))	108-95-2
CAS No. (Other Component)	N/A
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.
Manufacturer / Supplier	Supreme Petro Chemicals
Address	Periyamet, Chennai - 600 003, Tamil Nadu, India
Emergency Contact	Sudarshan - 8197947045; Sanketh - 8608780096
Email	admin@supremepetrochemicals.com
SDS Revision Date	April 2026
SDS Version	1.0
Product Page URL	https://www.supremepetrochemicals.com/products/phenol-liquid-crystal

SECTION 2 HAZARD IDENTIFICATION

Acute Tox. 3; Skin Corr. 1B; Muta. 2; STOT RE 2	
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
Other GHS hazard classes	Not classified for unlisted hazard classes based on reviewed source data.
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Signal Word	DANGER

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

Hazard Statements:

- H301 - Toxic if swallowed
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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 & 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.

Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap where appropriate. Seek medical attention if symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards.

SECTION 5 FIREFIGHTING MEASURES

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use full chemical PPE. Contain spill, prevent drain entry and collect as toxic/corrosive hazardous waste.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment Methods	Use full chemical PPE. Contain spill, prevent drain entry and collect as toxic/corrosive hazardous waste.
Clean-up Methods	Collect material into labelled containers for disposal through an approved waste contractor.
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	Avoid all contact and inhalation. Store locked, cool, ventilated, away from oxidisers and incompatible materials.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Avoid all contact and inhalation. Store locked, cool, ventilated, away from oxidisers and incompatible materials.
Storage Temperature	Store at ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidizers and product-specific incompatible substances; see supplier SDS before use.
Packaging	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Segregation	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/ACGIH/EU/UK/India	CAS 108-95-2; supplier/regional OEL confirmation required.

Engineering Controls	Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids.
Respiratory Protection	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.
Hand Protection	Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task.
Eye/Face Protection	Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk.
Body Protection	Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur.
Hygiene Measures	Provide eyewash and safety shower where appropriate. Wash after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to pink crystalline solid or molten liquid.
Odour	Sweet/tarry phenolic odour.
Odour Threshold	Not established.
pH	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.
Melting/Freezing Point	Approx. 40-43 deg C
Boiling Point / Range	Approx. 181-182 deg C
Flash Point	Approx. 79 deg C closed cup
Auto-ignition Temperature	Approx. 715 deg C
Flammability Limits	Not established.
Vapour Pressure	Approx. 0.35 mmHg at 25 deg C
Vapour Density	3.2 (air=1)
Relative Density	Approx. 1.06
Solubility in Water	Moderately soluble
Log Pow (Partition Coeff)	Approx. 1.5
Evaporation Rate	Not established.
Viscosity	See supplier specification.
VOC Content	Assess per applicable regional VOC regulations.
Reactivity	Stable under normal handling when protected from incompatible materials.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride ($AlCl_3$) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides and irritating or toxic fumes may be formed in fire.
Hazardous Reactions	No hazardous reactions under normal storage unless noted by product reactivity.
Possibility of Hazardous React.	Will not occur under normal conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

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

SECTION 12 ECOLOGICAL INFORMATION

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

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

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

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

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

Canada WHMIS / HPR	Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure.
Regulatory Scope Limitation	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:

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- H331 - Toxic if inhaled
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- H341 - Suspected of causing genetic defects
- H373 - May cause damage to organs through prolonged or repeated exposure
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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 SDS format
Revision Date	22 April 2026
Version	1.0
Replaces Version	N/A - Initial Issue
Key Sources	SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 April 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 April 2026.
Audit Correction Note	Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release.