

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Phenol USP Crystals
Commercial Name Not available
Product Use Not available
Restrictions On Use Not known
Product Code 50-1064
Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Acute oral toxicity Category 3 Acute dermal toxicity Category 3 Acute Inhalation Toxicity - Dusts and Mists
CFR 1910.1200 Category 3 Skin Corrosion/Irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Germ Cell Mutagenicity Category 2 Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system. Specific target organ toxicity - (repeated exposure) Category 1

Signal Word DANGER

Hazard Statement(s) Causes severe skin burns and eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. Toxic if swallowed, in contact with skin or if inhaled.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep cool

Response Immediately call a POISON CENTER or doctor/physician IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Rinse mouth Do NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam for extinction

Storage Store locked up Store in a well-ventilated place. Keep container tightly closed

Disposal Dispose of contents/container to an approved waste disposal plant

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Phenol
% By Weight >95
CAS# 108-95-2
Molecular Weight Not available
Chemical Formula Not available.
Synonym(s) Not available.



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Mixtures Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Phenol	108-95-2	100	TWA: 5 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 19 (mg/m3) from ACGIH (TLV) [United States] SKIN TWA: 5 from NIOSH [United States] TWA: 19 (mg/m3) from NIOSH [United States] TWA: 5 (ppm) from OSHA (PEL) [United States] TWA: 19 (mg/m3) from OSHA (PEL) [United States] TWA: 5 (ppm) [Canada] TWA: 19 (mg/m3) [Canada]	ORAL (LD50): Acute: 317 mg/kg [Rat]. 270 mg/kg [Mouse]. DERMAL (LD50): Acute: 630 mg/kg [Rabbit]. 669 mg/kg [Rat].

Section 4: First-Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required
Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately
Symptoms/Effects	
Acute	Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: May cause central nervous system depression
Delayed	Not available.
Immediate Medical Attention	Treat symptomatically.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water mist may be used to cool closed containers. CO 2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Not available.

Firefighters Special Equipment and Precautions

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

Section 6: Accidental Release Measures

Personal Precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation. **Environmental Precautions** Should not be released into the environment. **Methods for Containment and Clean Up:** Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Section 7: Handling and Storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe (dust, vapor, mist, gas). Avoid dust formation. **Storage.** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Protect from moisture. Protect from light. **Corrosives area.** Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. **Incompatible Materials.** Acids. Bases. Strong oxidizing agents. Halogens. Lead. Metals.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	TWA: 5 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 19 (mg/m3) from ACGIH (TLV) [United States] SKIN TWA: 5 from NIOSH [United States] TWA: 19 (mg/m3) from NIOSH [United States] TWA: 5 (ppm) from OSHA (PEL) [United States] TWA: 19 (mg/m3) from OSHA (PEL) [United States] TWA: 5 (ppm) [Canada] TWA: 19 (mg/m3) [Canada] Consult local authorities for acceptable exposure limits.
Engineering Controls	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.



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Personal Protection

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: Effective dust mask Filter type A. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance	Translucent White Crystalline Solid		
Odor	Pungent		
Odor Threshold	Not information available.		
Melting Point	39 - 42 °C / 102.2 - 107.1	pH	6 @ 20 degrees C 10g/L aq.sol
Freezing Point	Not available	Vapor Pressure	0.4 mbar @ 20 °C
Boiling Point/Range	182 °C / 359.6 °F @ 760 mmHg	Vapor Density	Not available.
Decomposition temperature	Not available	Viscosity	3.437 mPa.s (50°C)
Partition Coefficient: n-octanol/water	No data available.	Evaporation Rate	Not available
Flash Point	79 °C / 174.2 °F	Autoignition temperature	605 °C / 1121 °F
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	1.7 vol %
		Upper	8.6 vol %
Solubility(ies)	Soluble in water		
Other	Molecular Formula C6 H6 O Molecular Weight 94.11		

Section 10: Stability and Reactivity

Reactivity	Yes
Chemical Stability	Hygroscopic, Light sensitive
Hazardous Polymerization	Hazardous polymerization does not occur
Conditions to Avoid	Avoid dust formation. Incompatible products. Exposure to moisture. Exposure to light. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.
Incompatible Materials	Acids, Bases, Strong oxidizing agents, Halogens, Lead, Metals
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2)

Section 11: Toxicological Information

RTECS	Not available.
Acute Toxicity	Calc. ATE 60 mg/kg (Human evidence) LD50 = 340 mg/kg (Rat) 650 mg/kg (Rat; OECD 401) Calc. ATE 300 mg/kg (Human evidence) LD50 = 660 mg/kg (Rat) 850 - 1400 mg/kg (Rabbit) Calc. ATE 0.5 mg/l (Human evidence) LC50 >900 mg/m3/8h (Rat)
Skin Corrosion/Irritation	Causes burns by all exposure routes
Serious Eye Damage/Irritation	Causes burns by all exposure routes
Respiratory or Skin Sensitization	Not a skin sensitizer
Germ Cell Mutagenicity	Suspected of causing genetic defects
Carcinogenicity	No data available
Reproductive Toxicity	Experiments have shown reproductive toxicity effects on laboratory animals.
Routes of Entry	Not available.



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Symptoms Related to Exposure

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: May cause central nervous system depression

Potential Health Effects

Not available

Target Organ(s)

Not available.

Section 12: Ecological Information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Freshwater Algae: EC50: 0.0188 - 0.1044 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: 187 - 279 mg/L, 72h static (Desmodesmus subspicatus) EC50: = 46.42 mg/L, 96h (Pseudokirchneriella subcapitata) Freshwater Fish: 4-7 mg/L LC50 96 h 32 mg/L LC50 96 h EC50 21 - 36 mg/L 30 min Microtox: EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min Water Flea: EC50: 10.2 - 15.5 mg/L, 48h (Daphnia magna) EC50: 4.24 - 10.7 mg/L, 48h Static (Daphnia magna)

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available

Bioaccumulative Potential

No data available

Mobility in Soil

Will likely be mobile in the environment due to its water solubility

Other Adverse Effects

Not available.

Section 13: Disposal Considerations

Waste Disposal

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Disposal of Container

Not available.

Other Considerations

Not available

Section 14: Transport Information

DOT Classification

UN-No UN1671 Proper Shipping Name PHENOL, SOLID Hazard Class 6.1 Packing Group II

Section 15: Regulatory Information

Regulations

United States of America Inventory TSCA X TSCA Inventory notification - Active-Inactive: Active TSCA Flags - TSCA 12(b) - Notices of Export Not applicable SARA 313 Threshold Values 1.0% CWA: Hazardous Substances: X Reportable Quantities: 1000lb Toxic Pollutants: X Priority Pollutants: X Clean Air Act: HAPS Data: X CERCLA: Hazardous Substances RQs: 1000 lb EHS RQs: 1000 lb California Proposition 65: Reproductive toxin, developmental U.S. State Right-to-Know: Massachusetts: X New Jersey: X Pennsylvania: X Illinois: X Rhode Island: X U.S. Department of Transportation: Reportable Quantity: Y DOT Marine Pollutant: N DOT Severe Marine Pollutant: N

Other

Mexico - Grade - No information available.

Section 16: Other Information

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