

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 586.00

Revision Date: May 21, 2015

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Phenol

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Acute toxicity, dermal (Category 3) and inhalation (Category 3). Toxic in contact with skin (H311). Do not eat, drink, or smoke when using this product (P270).

Hazard class: Germ cell mutagenicity (Category 2). Suspected of causing genetic defects (H341). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Hazard class: Specific target organ toxicity, repeated exposure (Category 2). May cause damage to organs through prolonged or repeated exposure (H373). Do not eat, drink or smoke when using this product (P270).

Contact with phenol may cause a severe blistering skin effect. Phenol in contact with more than 100 sq. in. of skin is absorbed so quickly that it may be fatal in 90 seconds. Avoid all body tissue contact. **Readily absorbed through the skin.**

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Phenol	108-95-2	C ₆ H ₅ OH	94.11	88-100%
Synonyms: Carboic acid; Hydroxybenzene				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician (P311).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Remove phenol with isopropyl alcohol or undiluted polyethylene glycol, then wash continuously with SOAPY water for at least 15 minutes. Water alone will increase absorption.

If swallowed: Do NOT give water. Do NOT induce vomiting. Call a physician or poison control at once. Water may enhance absorption.

SECTION 5 — FIRE FIGHTING MEASURES

Class IIIA combustible solid.

Flash point: 79 °C Flammable limits: Lower: 1.8% Upper: 8.6% Autoignition Temperature: 715 °C

Phenol, when heated, forms explosive mixtures with air. When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE

H-4

F-2

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Sweep up (if liquid, contain spill with sand and absorbent material), place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #8. Store with phenols and cresols. Store in a poisons cabinet. Store in a Flinn Chem-Saf™ bag. Keep container tightly closed (P233).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective **Neoprene** gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Wear respiratory protection (P284).

Exposure guidelines: PEL/TLV 5 ppm (OSHA/ACGIH) Odor threshold is 0.04 ppm. Readily absorbed through the skin.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystalline mass, loose crystals or liquefied.
Disinfectant-like odor.
Soluble: Water, alcohol and other organic solvents

Boiling point: 182 °C
Melting point: 42.5-43 °C
Specific gravity: 1.07
Vapor density: 3.24
Vapor pressure: 0.35 mmHg

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizing agents, strong bases, strong acids.

Shelf life: Fair to poor. Changes color on exposure to light. Absorbs water from air and liquefies. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Highly toxic, blistering agent, absorbed through skin.	ORL-RAT LD ₅₀ : 317 mg/kg
Chronic effects: Dermatitis.	IHL-RAT LC ₅₀ : 316 mg/m ³
Target organs: Liver, kidneys, nervous system, spleen.	SKN-RBT LD ₅₀ : 850 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #24a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Phenol, solid. Hazard class: 6.1, Poison. UN number: UN1671.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (203-632-7), RCRA code U188.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

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