



**COLUMBUS CHEMICAL INDUSTRIES INC.**

P.O. BOX 8  
 COLUMBUS, WISCONSIN 53925-0008  
 (920) 623-2140  
 FAX (920) 623-2577

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY** (as Used on Label and List)

**Phenol, 90%**

**Note:** Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, Wisconsin 53925

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

1 (920) 623-2140

Date Prepared

03-01-2004

Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Phenol* **	108-95-2	5 ppm TWA	5 ppm (TWA)	19 mg/m <sup>3</sup> (STEL)	90%

\*SYNONYMS: Carboic Acid, Hydroxybenzene

\*\*Subject to SARA Section 313 Reporting Requirements.

**Section III - Physical/Chemical Characteristics**

Boiling Point	182°C (358°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.06
Vapor Pressure (mm Hg) @ 20 °C (68 °F)	0.357	Melting Point	41 °C (106 °F)
Vapor Density (AIR = 1)	3.24	Evaporation Rate (Butyl Acetate = 1)	Not available

Solubility in Water

soluble in water.

Appearance and Odor

Clear, colorless to pink liquid

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used)	Flammable Limits (%V/V)	LEL	UEL
79 °C /175 °F (closed cup)		1.3%	8.6%

Extinguishing Media

Carbon dioxide, dry chemical powder, alcohol resistant foam, water spray.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use water to keep containers cool.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions. Do not breathe vapors. Combustible liquid.

Autoignition Temperature: 715 °C (1319 °F).

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Avoid heat, sparks, open flames
	Stable	X		light and incompatible materials.

**Incompatibility Materials to Avoid**

Oxidizing agents, metals, acids, alkalis

**Hazardous Decomposition or Byproducts**

Carbon dioxide, carbon monoxide.

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		
	Will Not Occur	X	

**Section VI Health Hazard Data**

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
Multiple	X	X	X

**Health Hazards (Acute and Chronic)**

Corrosive. Causes skin, eye and upper respiratory tract irritation and burns. May cause severe corneal injury and blindness. Skin and lung sensitizer. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. May cause kidney, heart and liver damage.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
None	Not listed	Not listed	Not listed

**Signs and Symptoms of Exposure.**

INHALATION: Wheezing, headache, coughing, dizziness, vomiting, drowsiness. INGESTION: burns, vomiting, nausea, pain.

SKIN/EYES: Redness, swelling, itching, burns, corneal injury, blindness. Phenol burns may be painless due to nerve damage.

Medical Conditions Generally Aggravated by Exposure

Pre-existing respiratory conditions may be aggravated.

**Emergency and First Aid Procedures**

INGESTION: If swallowed, call a physician immediately. Induce vomiting by giving two glasses of water provided person is conscious. EYES: In case of contact, immediately flush with large amounts of water for at least 15 minutes. INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. SKIN: Immediately wash skin with soap and large amounts of water.

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Evacuate and ventilate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant goggles, boots, self-contained breathing apparatus and full protective clothing. Contain spill with dikes, sand or noncombustible absorbent material. Pick up, place in a bag and hold for disposal. Ventilate area and wash spill site after pickup complete.

Waste Disposal Method Dispose in accordance with all Federal, state, and local regulations.

**Precautions to be Taken in Handling and Storing**

Keep in tightly closed plainly-labeled containers, stored in a cool, dry, ventilated area. Protect against physical damage. Keep away from heat, sparks and flame. Maintain adequate ventilation.

Other Precautions Containers, even when empty, will retain residue and vapors. Use with effective ventilation. Always obey hazard warnings and handle empty containers as if they were full. CORROSIVE!

**Section VII Control Measures**

Respiratory Protection (Specify Type) NIOSH/MSHA-approved respirator with acid/organic cartridge.

Ventilation	Local Exhaust	Mandatory.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Compatible chemical-resistant gloves. Eye Protection Goggles and Faceshield.

Other Protective Clothing or Equipment Full body-covering clothing. Compatible chemical-resistant boots.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Maintain eye wash

fountain and quick-drench facilities in work area. Avoid prolonged or repeated exposure. Ensure prompt removal from skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapor.

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