



# MATERIAL SAFETY DATA SHEET



## Phenol

### Section 1 - Chemical Product and Company Identification

MSDS Name:	Phenol
Synonyms:	Hydroxybenzene; Carbolic acid
Company Identification:	Hazel Mercantile Limited
Company Identification: (INDIA)	701/712 A, Embassy Centre, Nariman Point, Mumbai - 400 021.
For information in the INDIA, call:	+91 - 22 - 2282 4444 (50 Lines)

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
108-95-2	Phenol	99%	203-632-7

Hazard Symbols:	T C
	
Risk Phrases:	23/24/25 34 48/20/21/22 68

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Harmful : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Possible risk of irreversible effects.

#### Potential Health Effects

Eye:	Causes eye burns.
Skin:	Causes skin burns. Toxic in contact with skin.
Ingestion:	Causes gastrointestinal tract burns. Toxic if swallowed.
Inhalation:	Causes chemical burns to the respiratory tract. Toxic if inhaled.
Chronic:	Possible risk of irreversible effects.

### Section 4 - First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure. SPEEDY ACTION IS CRITICAL!
Ingestion:	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician:	



### Section 5 - Fire Fighting Measures

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Will burn if involved in a fire. Combustible liquid.
<b>Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.

### Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

### Section 7 - Handling and Storage

<b>Handling:</b>	Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.
<b>Storage:</b>	Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.

### Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
<b>Exposure Limits</b>	CAS# 108-95-2: United Kingdom, WEL - TWA: 2 ppm TWA United Kingdom, WEL - STEL: 6 ppm STEL United States OSHA: 5 ppm TWA; 19 mg/m3 TWA Belgium - TWA: 2 ppm VLE; 7.8 mg/m3 VLE France - VME: 2 ppm VME; 7.8 mg/m3 VME Germany: 5 ppm TWA; 19 mg/m3 TWA Germany: skin notation Japan: 5 ppm OEL; 19 mg/m3 OEL Malaysia: 5 ppm TWA; 19 mg/m3 TWA Netherlands: 2 ppm MAC; 8 mg/m3 MAC Russia: 0.3 mg/m3 TWA (vapour) Spain: 2 ppm VLA-ED; 8 mg/m3 VLA-ED

<b>Personal Protective Equipment</b>	
<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Mass
<b>Color:</b>	colorless
<b>Odor:</b>	sharp odor - sweetish odor
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	0.4mbar @20 deg C
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	182 deg C @760mmHg ( 359.60°F)
<b>Freezing/Melting Point:</b>	39 - 41 deg C
<b>Autoignition Temperature:</b>	605 deg C ( 1,121.00 deg F)
<b>Flash Point:</b>	79 deg C ( 174.20 deg F)
<b>Explosion Limits: Lower:</b>	1.3 Vol %
<b>Explosion Limits: Upper:</b>	9.5 Vol %
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	8g/100ml
<b>Specific Gravity/Density:</b>	1.019 g/cc
<b>Molecular Formula:</b>	C6H6O
<b>Molecular Weight:</b>	94.11

## Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable. Light sensitive. Hygroscopic: absorbs moisture or water from the air.
<b>Conditions to Avoid:</b>	Incompatible materials, light, exposure to moist air or water.
<b>Incompatibilities with Other Materials</b>	Strong oxidizing agents, bases, aluminum, halogens, magnesium, nitric acid, zinc, calcium hypochlorite, lead.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide.
<b>Hazardous Polymerization</b>	Has not been reported.

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 108-95-2: SJ3325000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 108-95-2:</b> Draize test, rabbit, eye: 5 mg Severe; Draize test, rabbit, skin: 500 mg/24H Severe; Draize test, rabbit, skin: 100 mg Mild; Inhalation, mouse: LC50 = 177 mg/m3; Inhalation, mouse: LC50 = 177 mg/m3/4H; Inhalation, rat: LC50 = 316 mg/m3; Inhalation, rat: LC50 = 316 mg/m3/4H; Oral, mouse: LD50 = 270 mg/kg; Oral, rat: LD50 = 317 mg/kg; Oral, rat: LD50 = 512 mg/kg; Skin, rabbit: LD50 = 630 mg/kg; Skin, rat: LD50 = 669 mg/kg; Skin, rat: LD50 = 1500 mg/kg;
<b>Carcinogenicity:</b>	Phenol - IARC: Group 3 (not classifiable)
<b>Other:</b>	See actual entry in RTECS for complete information. Possible mutagen.

## Section 12 - Ecological Information

Not available

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.



## Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	PHENOL, SOLID	PHENOL, SOLID	PHENOL, SOLID
<b>Hazard Class:</b>	6.1	6.1	6.1
<b>UN Number:</b>	1671	1671	1671
<b>Packing Group:</b>	II	II	II
USA RQ: CAS# 108-95-2: 1000 lb final RQ; 454 kg final RQ			

## Section 15 - Regulatory Information

<b>European/International Regulations</b>
European Labeling in Accordance with EC Directives
Hazard Symbols: T C
<b>Risk Phrases:</b>
➤ R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
➤ R 34 Causes burns.
➤ R 48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
➤ R 68 Possible risk of irreversible effects.
<b>Safety Phrases:</b>
➤ S 24/25 Avoid contact with skin and eyes.
➤ S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
➤ S 28A after contact with skin, wash immediately with plenty of water.
➤ S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
➤ S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>WGK (Water Danger/Protection)</b>
➤ CAS# 108-95-2: 2
<b>Canada</b>
➤ CAS# 108-95-2 is listed on Canada's DSL List
<b>US Federal</b>
➤ TSCA
➤ CAS# 108-95-2 is listed on the TSCA Inventory.

## Section 16 - Other Information

<b>MSDS Creation Date:</b>	October 15, 2007
<b>Revision #0 Date</b>	

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