



Material Safety Data Sheet



HMIS	
Health Hazard	3
Fire Hazard	2
Reactivity	0

PPE (See Section 15)



Section 1. Chemical Product and Company Identification

Trade Name	Protein Test 1	Code	RE/Protein 1
Manufacturer	HazTech Systems, Inc. P.O. Box 627 164 Dinsmore Fortuna, CA 95540	CAS #	108-95-2
		RTECS	SJ3325000
		TSCA	TSCA 8(b) inventory: Phenol
Commercial Name	Phenol	CI #	
Synonyms	Carbolic acid; Phenic acid; Phenylic acid; Hydroxybenzene; Phenol, fused; Monohydroxybenzene; Phenol, solid	<div style="border: 1px solid black; padding: 5px;"> <p>In case of emergency contact CHEMTREC (24 hours) at 800-424-9300</p> <p>HazTech Systems, Inc. 800-337-2497</p> <p>Spectrum Chemical Mfg. Corp. 310-516-8000</p> </div>	
Chemical Formula	C6H5OH		
Supplier	Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St. Gardena, CA 90248		

Section 2. Composition and Information on Ingredients

Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m3)	STEL	CEIL (mg/m3)	
Phenol	108-95-2	19			100

Toxicological Data on Ingredients

Phenol:
 ORAL (LD50): Acute: 317 mg/kg [Rat]. 270 mg/kg [Mouse].
 DERMAL (LD50): Acute: 669 mg/kg [Rat].
 DUST (LC50): Acute: 708 ppm 4 hour(s) [Mouse]. 1264 ppm 4 hour(s) [Rat].

Section 3. Hazards Identification

Potential Acute Health Effects: Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive). Hazardous in case of skin contact (sensitizer, permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Section 5. Fire and Explosion Data

Flammability	May be combustible at high temperature.
Auto-Ignition Temperature	715C (1319F)
Flash Point	CLOSED CUP: 79°C (174.2°F). OPEN CUP: 85°C (185°F).
Flammable Limits	LOWER: 1.7%
Products of Combustion	CO, CO ₂ , H ₂ O
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Water spray, dry chemical, alcohol foam, or carbon dioxide.
Special Remarks on Fire Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Section 7. Handling and Storage

Precautions If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage Keep in HazCat Kit.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use in a well ventilated area.

Personal Protection Gloves and goggles.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Solid	Volatility	Not available
Molecular Weight	94.11	Odor Threshold	0.06 ppm
pH (1% Solution in Water)	Not available	Water/Oil Dist. Coeff.	Not available
Boiling Point	182C (360F)	Ionicity (in Water)	Not available
Melting Point	43C (109F)	Dispersion Properties	Not available
Critical Temperature	Not available	Solubility	Partially soluble in cold water
Specific Gravity	1.06 @ 20C/4C	Odor	Sharp, medicinal
Vapor Pressure	0.4 @ 20C (68F)	Taste	Not available
Vapor Density	3.24 (Air = 1)	Color	Colorless

Section 10. Stability and Reactivity Data

Stability	Product is stable.	Corrosivity	Non-corrosive in presence of glass.
Instability Temperature	Not available.	Special Remarks on Corrosivity	Not available.
Conditions of Instability	Not available.	Polymerization	Will not polymerize.
Incompatibility with Various Substances	Not available.		

Section 11. Toxicological Information

Route of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 270 mg/kg [Mouse]. Acute dermal toxicity (LD50): 669 mg/kg Rat. Acute toxicity of the dust (LC50): 2725.1 mg/m ³ 4 hours Mouse
Chronic Effects on Humans	The substance is toxic to lungs, mucous membranes.
Other Toxic Effects on Humans	Extremely hazardous in case of skin contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive, sensitizer, permeator).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Foetotoxic in animal.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification CLASS 6.1: Poisonous material.

Identification Phenol, solid : UN1671 PG: II

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations
 Pennsylvania RTK: Phenol
 Massachusetts RTK: Phenol
 TSCA 8(b) inventory: Phenol
 SARA 302/304/311/312 extremely hazardous substances: Phenol
 SARA 313 toxic chemical notification and release reporting: Phenol
 CERCLA: Hazardous substances.: Phenol

California Proposition 65 Warnings

Other Regulation OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other classifications WHMIS (Canada) CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive solid.

DSCL (EEC) R34- Causes burns.
 R43- May cause sensitization by skin contact.

Section 16. Other Information

Catalog Number(s) Protein1

References Not available.

Other Special Considerations Not available.

Validated by R. Houghton 11/15/01

Verified by R. Turkington

Call 1-800-543-5487

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.