

## SECTION 1: Identification

Product Na	ne Pher Crys	nol, ACS Reagent			
,		ic Acid; Hydroxybenzene; Phenic Acid; 84410-49			
Recommended Uses Uses Advised Against		General Laboratory Reagent/Chemical. Not intended for drug, food or household use.			
Address Telephone	SPEX CertiPrep, LLC 203 Norcross Ave. Metuchen, NJ 08840 U 1.732.549.7144	SA	<b>24-Hour Emergency Telephone</b> CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887		
Website	www.spex.com				

## SECTION 2: Hazard(s) Identification

Acute toxicity Dermal (Category 3) Acute toxicity Oral (Category 4) Serious eye damage/eye irritation (Category 1) Skin corrosion/irritation (Category 1) Germ cell mutagenicity (Category 2)

#### Hazards not otherwise classified or covered by GHS

None identified.

### Signal Word

DANGER

#### **Hazard Statements**

Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and serious eye damage. Suspected of causing genetic defects.

#### **Precautionary Statements**

Obtain, read and follow all safety instructions before use. Do not breathe mist, vapors or spray. Wash areas of contact/exposure thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and clothing and eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical help. IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash contaminated clothing before reuse. Get emergency medical help immediately. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Get medical help. In all cases of contact: Get emergency medical help immediately. IF exposed or concerned, get medical advice. Store locked up. Dispose of contents/container in accordance with local, state, federal and international regulations.



### SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Phenol	108-95-2	203-632-7	100



SECTION 4: First-Aid Measu	res
General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	Immediately flush affected area with plenty of water while removing contaminated clothing. Seek medical attention if you are
okin oondet	concerned or feel unwell.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek immediate medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or physician. Ensure that the patient/victim has an unobstructed airway. If shortness of breath occurs or breathing is difficult, administer oxygen. If breathing has ceased provide artificial respiration. Always use a barrier or bag-valve-mask device. DO NOT GIVE MOUTH-TO-MOUTH RESPIRATION.
Ingestion	Immediately call a poison center or physician. Induce vomiting only if advised by medical personnel to do so. Keep victim at rest in a comfortable position for breathing.
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
Treatment	Treat symptomatically.
SECTION 5: Fire-Fighting Me	easures
Extinguishing Media	Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam).
Specific Hazards	Thermal decomposition may produce toxic or irritating fumes.
Actions for Firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
SECTION 6: Accidental Rele	ase Measures
Precautions and Procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	Take all precautions to avoid release to the environment.
Containment and Clean Up	Avoid dust formation. Wear respiratory protection, gloves, eye protection and protective clothing. Sweep up or vacuum up spillage and collect in suitable lidded container for disposal.
Section 7: Handling and Sto	rage
Handling	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling this substance. Wear gloves, protective clothing and eye protection when handling this substance.
Storage	Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store separately from incompatible materials. Store locked up.
Section 8: Exposure Control	Is / Personal Protection
Engineering Controls	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.
Exposure Limits	Phenol PEL-TWA 19 mg/m <sup>3</sup> US-OSHA
Exposure Limits	Phenol REL-TWA 5 ppm US-NIOSH
Exposure Limits	Phenol TLV-TWA 5 ppm US-ACGIH
Exposure Limits	Phenol Ceiling 15.6 ppm (15 minute) US-NIOSH
Eye Protection	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.
Skin Protection	Wear chemical resistant gloves and protective clothing.
Respiratory Protection	Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical fume hood), wear respiratory protection.
Section 9: Physical and Che	mical Properties



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Physical State	Solid	
Appearance/Color	Colorless to pink	
Odor	Sweetly acrid, tarry	
Odor Threshold	0.5 - 5 ppm	
Melting/Freezing Point	40.9°C	
Boiling Point/Range	181.8°C	
Flammability	Flammable	
Flammable/Explosive Limits	1.8 - 8.6%	
Flash Point	79°C	
Auto-Ignition Temperature	715°C	
Decomposition Temperature	Data not available	
pH	6 Nationalisable	
Viscosity Solubility (in water)	Not applicable. Phenol is liguefied by mixing with	
Solubility (in water)	approximately 8% water	
Partition Coefficient (n-octano		
Relative Density Vapor Pressure	1.07 Not applicable	
Vapor Density	Not applicable	
Evaporation Rate	Not applicable.	
Particle Characteristics	Data not available	
Section 10: Stability and Re	activity	
Reactivity	Mixtures with peroxysulfuric acids explode.	
Chemical Stability	Stable under normal conditions of handling and storage.	
Hazardous Reactions	Based on available data, no reaction hazards have been identified that would occur during normal handling and storage.	
Conditions to Avoid	Avoid contact with incompatible materials.	
Incompatible Materials	Aluminum chloride with nitrobenzene, nitromethane, butadiene, formaldehyde, sodium nitrite; sodium nitrate with trifluoroacetic acid; peroxodisulfuric acid, peroxomonsulfuric acid.	
Hazardous Decomposition	Thermal decomposition can produce carbon oxides.	
Section 11: Toxicological In	formation	
Acute Toxicity - Oral	LD50 (rat) 317 mg/kg	
Acute Toxicity - Dermal	LD50 (rabbit) 630 mg/kg	
Acute Toxicity - Inhalation	LC50 (rat) 316 mg/m <sup>3</sup>	
Skin Corrosion/Irritation	Toxic in contact with skin. Causes severe skin damage.	
Eye Damage/Irritation	This material can cause serious eye damage.	
Respiratory Sensitization	Not expected to cause respiratory sensitization.	
Skin Sensitization	Not expected to cause skin sensitization.	
Germ Cell Mutagenicity	Based on available data, this substance is suspected of causing germ cell mutagenicity.	
Carcinogenicity	This substance contains a chemical that is not classifiable as to its carcinogenicity to humans in IARC studies.	
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.	
STOT Single Exposure	None known.	
STOT Repeated Exposure	None known.	
Aspiration Hazard	This substance is not considered to be an aspiration hazard.	
Other Information	No additional information available.	



## Section 12: Ecological Information

Toxicity Values	LC50 (Crangon crangon) 172 mg/L/24H	
Persistence/Biodegradability	Expected to biodegrade.	
<b>Bioaccumlation Potential</b>	BCF 17.38 (low potential for bioaccumulation).	
Mobility in Soil	Expected to have high mobility in soil (Koc values are generally < 100).	
Other Adverse Effects	None known.	
Section 13: Disposal Considerations		

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information				
UN Number	UN1671			
Proper Shipping Name, Hazard	Class PHENOL, SOLID, 6.1			
Packing Group	II			
Marine Pollutant	Not classified as a marine pollutant.			
Section 15: Regulatory Inforn	nation			
USA TSCA	On or in compliance with the inventory.			
USA SARA 302/304	Phenol (EHS), TPQ 227 kg (500 lbs), RQ 454 kg (1000 lbs)			
USA SARA 311/312	Phenol (EHS)			
USA SARA 313 (TRI)	Phenol (EHS)			
Canada DSL/NDSL	On or in compliance with DSL.			
California Proposition 65	This product contains no substances on the list.			
Section 16: Other Information				
Acronyms	ACGIHAmerican Conference of Governmental Industrial Hygienists (USA)ATEAcute Toxicity Estimate (calculated toxicity value)BCFBioconcentration FactorCERCLAComprehensive Environmental Response, Compensation and Liability Act (USA)DOTDepartment of Transportation (USA)DSLDomestic Substances List (Canada)EHSExtremely Hazardous SubstanceEPAEnvironmental Protection Agency (United States)GHSGlobally Harmonized SystemIARCInternational Agency for Research on CancerIDLHImmediately Dangerous to Life and HealthNTPNational Toxicology Program (USA)OSHAOccupational Safety and Health Administration (USA)PELPermissible Exposure LimitPNORParticulates Not Otherwise ClassifiedPPEPersonal Protective EquipmentppbParts per billionppmParts per billionRQReportable QuantitySARASuperfund Amendments and Reauthorization Act (USA)TLVThreshold Limit ValueTPQThreshold Planning QuantityTRIToxic Release Inventory (USA)TSCAToxic Substances Control Act (USA)TWATime Weighted AverageUNUnited NationsQ3/30/22Issue Date: 3/30/2022			
Revision Date	U3/3U/ZZ ISSUE Date: 3/3U/2UZZ			

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: product safety department

Contact: SPEX CertiPrep, LLC. 1-732-549-7144