Phenol

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Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Phenol Science education applications Carbolic Acid, Phenic Acid, Phenylic Acid, Hydroxybenzene Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

mouth. Do NOT induce vomiting.



Section 2



Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 1B, Germ Cell Mutagenicity Category 2, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Inhalation Dust / Mist Category 3, Acute Toxicity - Dermal Category 3, Acute Toxicity - Oral Category 3

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.

Section 3	ction 3 Composition / Information on Ingredients					
<u>Chemical Name</u> Phenol		<u>CAS #</u> 108-95-2	<u>%</u> 100			
Section 4	First Aid Measures					
Emergency and Firs	st Aid Procedures					
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.					
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF ON SKIN					
	(or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.					
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse					

Section 5

Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection: Water fog Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Keep run-off water out of sewers and water sources.

Fire and/or Explosion Hazards: Hazardous Combustion Products:

Toxic fumes.

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Section 6		Spill or Leak I	Procedures				
Steps to Take in Case Material Is Released or Spilled: equ nee circ are spil Pre to c rec gra		equipment recommendations needs must be evaluated bas circumstances created by the area in which the spill occurre spill. Never exceed any occu Prevent the spread of any sp to do so. Wear complete and recommendation of Section 8 granulated clay. Gather and	posure to the spilled material may be severely irritating or toxic. Follow personal protective uipment recommendations found in Section 8 of this SDS. Personal protective equipment eds must be evaluated based on information provided on this sheet and the special cumstances created by the spill including; the material spilled, the quantity of the spill, the ea in which the spill occurred, and the expertise of employees in the area responding to the ill. Never exceed any occupational exposure limits. event the spread of any spill to minimize harm to human health and the environment if safe do so. Wear complete and proper personal protective equipment following the commendation of Section 8 at a minimum. Dike with suitable absorbent material like anulated clay. Gather and store in a sealed container pending a waste disposal evaluation. bock any potential routes to water systems.				
Section 7		Handling an	d Storage				
Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as						
Storage:	required. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.						
Storage Code:	Blue - Toxic. Store separately in a secured area.						
Section 8		Protection In	formation				
		ACGI		OSHA	PEI		
<u>Chemical Name</u> Phenol					(STEL) N/A		
Control Parameters Engineering Measures: Personal Protective Equipment (PPE):		necessary when handlin	g or using this prod	es, or other engineering co uct to avoid overexposure			
Respiratory Prote	Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling thi product. General or local exhaust ventilation is the preferred means of protection respirator if general room ventilation is not available or sufficient to eliminate sym				protection. Use a		
Respirator Type(Eye Protection:	s):	NIOSH approved air purifying respirator with organic vapor cartridge and HEPA filter. Wear chemical splash goggles when handling this product. Have an eye wash station available.					
		Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regular intervals. Clean protective exposed areas with mild soap and water before eating, drinking, and when leaving work. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Nitrile - Extra Thick (8 mm), Neoprene, Butyl rubber					

Gloves:

Section 9

Physical Data

Formula: C6H5OH Molecular Weight: 94.11 Appearance: Cloudy (milky) Crystals Odor: Moderate Acrid aromatic Sweet Odor Threshold: 0.08 ppm (0.23 mg/M3) pH: No data available Melting Point: 41 C Boiling Point: 182 C Flash Point: 79 C Flammable Limits in Air: 1.7 - 8.6%

Reactivity Data

Vapor Pressure: 0.48 hPa at 20 °C

Evaporation Rate (BuAc=1): 0.01

Autoignition Temperature: 715 C

Percent Volatile by Volume: 100%

Decomposition Temperature: No data available

Vapor Density (Air=1): 3.24

Solubility in Water: Soluble

Log Pow (calculated): 1.47

Viscosity: No data available

Specific Gravity: 1.071

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:		Not generally reactive under normal conditions. Stable under normal conditions. Elevated temperatures Oxidizing materials, Acetaldehydes, Mineral acids, Metals Toxic fumes. Will not occur					
Section 11		Toxici	ity Data				
Delayed Effects:	Inhalation, ingestion, eye or skin contact. Central Nervous System Disorders, Cardiovascular system, Impaired Kidney Function, Respiratory disorders, Numbness Liver disorders Respiratory disorders Impaired Kidney Function Cardiovascular system Central Nervous System Disorders						
Acute Toxicity: Chemical Name Phenol		CAS Number 108-95-2	Oral LD50 Oral LD50 Rat 512 mg/kg	Dermal LD50 Dermal LD50 Rabbit 630 mg/kg	Inhalation LC50 INHALATION LC50 Rat 316 MG/M3		
Carcinogenicity: Chemical Name Phenol		CAS Number 108-95-2	IARC Not listed	NTP Not listed	OSHA Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	Evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. Evidence of negative reproductive effects. Kidneys, Central Nervous System, Cardiovascular system, Lungs Kidneys, Liver						
Section 12		Ξ	cological Data				
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	This material is not expected to be harmful to the ecology. This material is expected to have high mobility in soil. It absorbs weakly to most soil types. No data Bioconcentration is not expected to occur. Biodegrades very quickly.						
Chemical Name Phenol		CAS Number 108-95-2	,				
Section 13		Disp	osal Informatio	on			

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. U188 - Phenol

Section 14

Transport Information

Ground - DOT Proper Shipping Name: UN1671 Phenol, Solid Division 6.1 P.G. II Air - IATA Proper Shipping Name: UN1671 Phenol, Solid Division 6.1 P.G. II

Section 15

Regulatory Information

Additional Information

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Phenol	108-95-2	Phenol	1000 lb RQ	1000 lb final RQ; 454 kg final RQ	500 lb lower TPQ; 10000 lb upper TPQ	No

Section 16

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health