

SECTION 1: Identification

Product Name	Phenol/o-Dichlorobenzene, 50/50 w/w		
Other Identifiers	84410-50		
Recommended Uses	General Laboratory Reagent/Chemical.		
Uses Advised Against	Not intended for drug, food or household use.		
Address	SPEX CertiPrep, LLC 203 Norcross Ave. Metuchen, NJ 08840 USA	24-Hour Emergency Telephone	
Telephone	1.732.549.7144	CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1 + 730-527-3887	
Website	www.spex.com		

SECTION 2: Hazard(s) Identification

- Acute toxicity Dermal (Category 4)
- Acute toxicity Inhalation (Category 4)
- Acute toxicity Oral (Category 4)
- Serious eye damage/eye irritation (Category 1)
- Skin corrosion/irritation (Category 1)
- Germ cell mutagenicity (Category 2)
- Specific target organ toxicity, repeated exposure (Category 2)
- Specific target organ toxicity, single exposure (Category 3)
- Hazardous to the aquatic environment, short-term (Category Acute 3)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER

Hazard Statements

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

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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. 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 medical help. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. Get medical help. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. In all cases of contact: Get emergency medical help immediately. IF exposed or concerned, get medical advice. Get medical help if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. 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	50
o-Dichlorobenzene	95-50-1	202-425-9	50

SECTION 4: First-Aid Measures

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 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. If breathing is difficult or labored , seek medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or physician.
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 Measures

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	As with any chemical involved in a fire, 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 Release 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	Contain and absorb with inert absorbent material. Wear respiratory protection , gloves, eye protection and protective clothing. Sweep up or vacuum up spillage and collect in a suitable lidded container for disposal.

Section 7: Handling and Storage

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 Controls / 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 ³ 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
Exposure Limits	o-Dichlorobenzene PEL-Ceiling 300 mg/m ³ US-OSHA
Exposure Limits	o-Dichlorobenzene REL-Ceiling 50 ppm US-NIOSH
Exposure Limits	o-Dichlorobenzene TLV-TWA 25ppm US-ACGIH
Exposure Limits	o-Dichlorobenzene TLV-Ceiling 50 ppm US-ACGIH
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 Chemical Properties

Safety Data Sheet

Physical State	Liquid
Appearance/Color	Colorless to light pink
Odor	Sharp, medicinal, sweet, tarry
Odor Threshold	Data not available.
Melting/Freezing Point	Data not available.
Boiling Point/Range	Data not available
Flammability	Not flammable
Flammable/Explosive Limits	Not applicable
Flash Point	Not applicable
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	Data not available
pH	Data not available
Viscosity	Data not available
Solubility (in water)	Data not available
Partition Coefficient (n-octanol/water)	Data not available
Relative Density	1.1745
Vapor Pressure	Data not available
Vapor Density	Data not available
Evaporation Rate	Data not available
Particle Characteristics	Not applicable.

Section 10: Stability and Reactivity

Reactivity	Attacks some forms of plastics, coatings and rubber. Sensitive to prolonged exposure to light. Mixtures with peroxysulfuric acids can 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	Oxidizers, aluminum, 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, phosgene, hydrogen chloride.

Section 11: Toxicological Information

Acute Toxicity - Oral	ATE: 524 mg/kg
Acute Toxicity - Dermal	ATE: 1185 mg/kg
Acute Toxicity - Inhalation	ATE: 16 mg/L
Skin Corrosion/Irritation	Causes severe skin burns.
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	May cause respiratory irritation.
STOT Repeated Exposure	Repeated exposure can damage liver, kidneys and central nervous system.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	The toxicological properties have not been fully investigated. Data is unavailable, limited or inconclusive.

Section 12: Ecological Information

Toxicity Values	ATE: 28.5 mg/L
Persistence/Biodegradability	Data is not available for this mixture of substances.
Bioaccumulation Potential	Data is not available for this mixture of substances.
Mobility in Soil	Data is not available for this mixture of substances.
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	UN2810
Proper Shipping Name, Hazard Class	TOXIC, LIQUIDS, ORGANIC, N.O.S. (DICHLOROBENZENE, PHENOL), 6.1
Packing Group	II
Marine Pollutant	Not classified as a marine pollutant.

Section 15: Regulatory Information

USA TSCA	All components are 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 302/304	o-Dichlorobenzene, TPQ 4540 kg (10,000 lbs), RQ 45.4 kg (100 lbs)
USA SARA 311/312	Phenol (EHS)
USA SARA 311/312	o-Dichlorobenzene
USA SARA 313 (TRI)	Phenol (EHS)
USA SARA 313 (TRI)	o-Dichlorobenzene
Canada DSL/NDL	All components are on or in compliance with DSL.
California Proposition 65	This product contains no substances on the list.

Section 16: Other Information

Acronyms	ACGIH	American Conference of Governmental Industrial Hygienists (USA)
	ATE	Acute Toxicity Estimate (calculated toxicity value)
	BCF	Bioconcentration Factor
	CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
	DOT	Department of Transportation (USA)
	DSL	Domestic Substances List (Canada)
	EHS	Extremely Hazardous Substance
	EPA	Environmental Protection Agency (United States)
	GHS	Globally Harmonized System
	IARC	International Agency for Research on Cancer
	IDLH	Immediately Dangerous to Life and Health
	NTP	National Toxicology Program (USA)
	OSHA	Occupational Safety and Health Administration (USA)
	PEL	Permissible Exposure Limit
	PNOR	Particulates Not Otherwise Classified
	PPE	Personal Protective Equipment
	ppb	Parts per billion
	ppm	Parts per million
	RQ	Reportable Quantity
	SARA	Superfund Amendments and Reauthorization Act (USA)
	TLV	Threshold Limit Value
	TPQ	Threshold Planning Quantity
	TRI	Toxic Release Inventory (USA)
	TSCA	Toxic Substances Control Act (USA)
	TWA	Time Weighted Average
	UN	United Nations

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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