

SAFETY DATA SHEET

Diphonix® Resin SDS - Bulk

Revision Date: 01-Feb-18

Section 1: Chemical Product and Company Identification

Product Name: Diphonix® Resin
Product Number(s): DP-B500-C-H, DP-B500-M-H
Product Synonym(s): Diphonix® Resin
Identified Uses: Laboratory chemicals, manufacture of substances
Manufacturer: Eichrom Technologies LLC
1955 University Lane
Lisle, Illinois 60532
General Information: (8-5 CST M-F)
800-422-6693 (in USA)
630-963-0320

24 Hour Emergency Number (US/Canada): 1-800-255-3924 CHEMTEL Contract #: MIS9554039

24 Hour International Access Number: 1-813-248-0585

Country Specific Emergency Numbers:

Australia: 1-300-954-583

India: 000-800-100-4086

Brazil: 0-800-591-6042

Mexico: 1-800-99-731

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture

GHS Classification of substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

Skin Irritant

Eye Irritant

Respiratory Tract Irritation

2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal Word

Warning

Hazard Statement(s):

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary Statement(s):

Prevention	P261	Avoid breathing dust.
	P264	Wash hands thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear safety goggles and/or face shield.
Response	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P312	Call a POISON CONTROL CENTER or doctor if you feel unwell.
	P332+P313	If skin irritation occurs, seek medical attention.
	P337+P313	If eye irritation persists, get medical attention.
Storage	P362+P364	Take off contaminated clothing and wash before reuse.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
Disposal	P501	Dispose of contents/container in accordance with federal, state, and local regulations.

2.3 Hazards Not Otherwise Classified (HNOC) or not covered by GHS:**Section 3: Composition / Information on Ingredients**

Component	CAS_Number	Percentage Range
De-ionized water	007732-18-5	50-70%
Phosphonic acid, ethenylidene bis-, tetrakis (1-methylethyl) ester, polymer with ethenyl benzene, 2-propenenitrile, and diethenylbenzene, dibenzoyl peroxide initiated, sulfonated and hydrolyzed	174851-91-3	30-50%

Section 4: First-aid Measures

Ingestion	Rinse mouth and call a POISON CONTROL CENTER or doctor if you feel unwell.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
Indication of any immediate medical attention and special treatment needed	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5: Firefighting Measures

Extinguishing Media	Foam, CO2, Dry Chemical
Fire and Explosion Hazards	Product is not combustible until moisture is removed; then resin starts to burn in flame at 230°C. Highly toxic and irritating fumes may be released and extinguishing water runoff may be toxic.
Protective Equipment	Wear positive pressure self-contained breathing apparatus and full personal protective equipment.
Special Hazards	Possible combustion products include, but are not limited to: alkylbenzenes, vinylbenzenes, phenol, phosphoric acid, carbon dioxide, sulfur oxides, water, organic sulfonates.

Section 6: Accidental Release Measures

Personal precautions	Avoid creating and breathing dust. See section 8. Surface may be slippery. Use proper personal protect equipment (specified in section 8)
Methods and materials for containment and clean-up	Sweep up material and transfer to a suitable container for disposal.
Reference to other sections	For disposal see section 13.

Section 7: Handling and Storage

Conditions for safe handling	Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use mechanical exhaust if dust is formed.
Conditions for safe storage	Normal warehouse storage in cool, dry area is satisfactory. Storage temperature: 0 to 50 °C (32 to 122°F)
Specific End Use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.

Section 8: Exposure Controls / Personal Protection

Control Parameters	Contains no substances with occupational exposure limit values.
Eye protection	Wear safety glasses.
Body protection	Wear protective gloves, clothing, and eye protection.
Respiratory protection	Do not breathe dust.

Section 9: Physical Properties

Information on basic physical and chemical properties

Appearance:	Solid Amber Spherical Beads	Explosion Limits (Upper/Lower):	Not Established
Odor:	None	Flash Point:	Not Applicable
Odor Threshold:	Not Established	Flammability:	Not Established
pH:	Not Established	AutoIgnition Temperature:	above 425°C
Melting Point:	0 °C (water); Not determined for solid	Decomposition Temperature	Not Established
Boiling Point:	100 °C (water); Not determined for solid	Vapor Pressure:	Not Established
Relative Density:	Not Available	Vapor Density:	Not Established
Solubility:	Insoluble in water	Evaporation Rate:	Not Established
Partition Coefficient:	Not Established		
Viscosity:	Not Applicable		

Section 10: Stability and Reactivity

Reactivity	No hazardous reactions if stored and handled as indicated.
Chemical Stability	Stable under normal handling and storage conditions.
Hazardous Reactions	No hazardous reactions are expected in normal laboratory use. Hazardous polymerization will not occur.
Conditions to Avoid	No relevant information available.
Materials to Avoid	Contact with strong oxidizers will degrade material.
Hazardous decomposition Products	Possible combustion products include, but are not limited to: alkylbenzenes, vinylbenzenes, phenol, phosphoric acid, carbon dioxide, sulfur oxides, water, organic sulfonates.

Section 11: Toxicology Information

Acute Toxicity	
Oral Effects	Oral LD50 has not been determined. Acute toxicity via the oral route of administration expected to be low.
Inhalation Effects	Inhalation LC50 has not been determined.
Dermal Effects	Dermal LD50 has not been determined.
Skin corrosion/irritation	Prolonged exposure not likely to cause significant skin irritation. May cause more severe response if skin is abraded (scratched or cut).
Serious eye damage/irritation	No test data available regarding eye irritation. Slight irritation expected.
Respiratory or skin sensitization	No data available regarding respiratory or skin sensitization effects of this product.
Germ Cell Mutagenicity	No data available regarding mutagenic effects of this product.
Carcinogenicity	No data available regarding carcinogenic effects of this product.
Reproductive Toxicity	No data available regarding reproductive effects of this product.
Specific Target Organ Toxicity	
Single Exposure	No data available regarding specific target organ toxicity single exposure.
Repeated Exposure	No data available regarding specific target organ toxicity repeated exposure.
Aspiration Hazard	No data available regarding the aspiration hazard of this product.

Section 12: Ecological Information

*The product has not been tested. The statement has been derived from the properties of individual components using an additivity method.

Aquatic Toxicity	No data are available on the adverse effects of this material on the environment.
Persistence and degradability	No data are available for persistence and degradability.
Bioaccumulative potential	No data are available for bioaccumulative potential.
Mobility in Soil	No data are available for mobility in soil.
PBT/vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Section 13: Disposal Considerations

General	Dispose of contents/container in accordance with federal, state, and local regulations.
Unused:	Bury resin in licensed landfill or burn in approved incinerator equipped with an afterburner and scrubber according to local, state, and federal regulations.
Used:	For resin contaminated with hazardous materials, dispose of mixture as hazardous material according to local, state, and federal regulations.

Section 14: Transport Information

Air Transport:	Not Hazardous per IATA 2014
Ground Transport:	Not D.O.T. Hazardous
Water Transport:	Not Hazardous per IMDG 2012.

Section 15: Regulatory Information

US Federal Regulations	Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.
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Section 16: Other Information

Revision	29-May-15: Replaces all MSD sheets issued in 2009. 22-Oct-15: Corrected typo in Flash Point [0°C to Not Applicable]. 2009 revision MSD sheets list flash point as "not applicable". Added trademark statement. 29-May-15: Updated to GHS SDS format, including classification 23-Oct-15: Corrected composition information to reflect water adsorbed in beads instead of free water. Also filled in all blank properties with not available or not established. 1-Feb-2018: Update Emergency Phone Numbers
SDS Prepared By:	Eichrom Technologies LLC
Trademark:	Diphonix® Resin is a registered trademark of Eichrom Technologies LLC.

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