

Section 3: Composition / Information on Ingredients

Component	CAS_Number	Percentage Range
Diphosphonic acid groups on silica support	181493-55-0	100%

Section 4: First-aid Measures

Ingestion	Rinse mouth.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, seek medical advice.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
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	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 carbon monoxide, carbon dioxide, alkylbenzenes, vinyl benzenes, phenol and phosphoric acid.

Section 6: Accidental Release Measures

Personal precautions	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 storage	Normal warehouse storage in cool, dry area is satisfactory.
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	Per OSHA 29 CFR 1910.1000 Table Z-3, for amorphous silicas PEL is 80 mg/m3 (8h TWA) Per OSHA 29 CFR 1910.1000 Table Z-3, for amorphous silicas PEL-TWA (8 hr) is 20 million particulates per cubic foot (706 million particulates/m3)
Exposure Controls	Normal ventilation is sufficient.
Eye protection	Wear safety glasses.
Body protection	Wear protective gloves, clothing, and eye protection.

Section 9: Physical Properties

Information on basic physical and chemical properties

Diphosil Resin SDS

Revision Date: 01-Feb-18

Appearance:	Solid granules Off-white to Yellow	Explosion Limits (Upper/Lower):	Not established
Odor:	None	Flash Point:	Not applicable
Odor Threshold:	Not Established	Flammability:	Not established
pH:	Not applicable	AutoIgnition Temperature:	>425°C
Melting Point:	Not established	Decomposition Temperature	Not Established
Boiling Point:	Not established	VaporPressure:	Not applicable at 20°C
Relative Density:	Not established	VaporDensity:	Not applicable at 20°C
Solubility:	Practically 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 carbon monoxide, carbon dioxide, alkylbenzenes, vinyl benzenes, phenol and phosphoric acid.

Section 11: Toxicology Information

Acute Toxicity	
Oral Effects	No data available for acute oral effects. Single dose oral toxicity is believed to be low.
Inhalation Effects	No data available for acute inhalation effects. Vapors are unlikely.
Dermal Effects	No data available for acute dermal effects. Skin absorption is unlikely.
Skin corrosion/irritation	No test data available regarding skin irritation.
Serious eye damage/irritation	No data available for eye irritation. Mechanical irritation is possible.
Respiratory or skin sensitization	No data available regarding respiratory or skin sensitization effects of the powder component.
Germ Cell Mutagenicity	No data available regarding mutagenic effects of this product.
Carcinogenicity	IARC: Group 3: Not classifiable as to its carcinogenicity to humans (Silica - Amorphous, gel)
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 aspiration hazards associated with 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 material 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): This material is provided to you under the research and development (R&D) exemption.
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Section 16: Other Information

Revision	8-Jun-15: Replaces 21-May-2009 Revision
	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.
	8-Jun-15: Updated to GHS SDS format, including classification
	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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