SAFETY DATA SHEET

Monophosphonic Acid Resin SDS

Section 1: Chemical Product and Company Identification			
Product Name	Monophosphonic Acid Resin		
Product Number(s):	MPA-B01, MP-B01-20-50, MP-B100-20-50, MP-B300-20-50, MP-B500-20-50		
Product Synonym(s):	Monophos Resin; Monophos Ion Exchange Resin		
Identified Uses:	Laboratory chemicals, manufacture of substa	ances	
Manufacturer:	Eichrom Technologies LLC	General Information:	(8-5 CST M-F)
	1955 University Lane Lisle, Illinois 60532		800-422-6693 (in USA)
			630-963-0320

24 Hour Emergency Number:

Section 2: Hazard(s) Identification

CHEMTREC: 800-424-9300

GHS Signal Word:	Warning
GHS Classification of	Skin Irritant and Eye Irritant
substance or mixture:	Respiratory Tract Irritation
Hazard Statement(s):	
H315+H319	Causes skin irritation and serious eye irritation
H335	May cause respiratory irritation
Prevention:	
P261	Avoid breathing dust.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, clothing, and eye protection.
Response:	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340+P312	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs, seek medical attention.
P337+P313	If eye irritation persists, get medical attention.
P362+P364	Take off contaminated clothing and wash before reuse.
Storage:	
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.
Section 3: Compos	ition / Information on Ingredients

Component	CAS_Number	Percentage Range	
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, phosphonomethylated sulfonated	443680-68-0	65-67%	
Water	007732-18-5	33-35%	

Section 4: First-aid Measures	
General Advice	The hazardous properties of this material have not been established. Information is based on compositionally and physically similar materials.
Ingestion	IF SWALLOWED: Call a POISON CONTROL CENTER or doctor if you feel unwell.
Skin Contact	Wash immediately with soap and copious amounts of water. Remove and wash contaminated clothing promptly. If irritation develops, seek medical attention.
Eye Contact	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	Remove to fresh air. If breathing is labored, administer oxygen. If not breathing, give artificial respiration. Seek medical attention.
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5: Firefighting Meas	sures
Extinguishing Media	Use fire extinguishing methods suitable to surrounding conditions
	Foam, CO2, Dry Chemical
Fire and Explosion Hazards	Product is not combustible until moisture is removed; autoignition occurs above 500°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 Me	easures	
Personal precautions	Surface may be slippery.	
	Avoid creating and breathing dust. See section 8.	
	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		
Specific End Use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.	
Conditions for safe handling	Use mechanical exhaust if dust is formed.	
	Avoid freezing or dehydrating; beads may fracture during thawing or rehydration.	
Conditions for safe storage	Recommended storage temperature: 5 to 40 °C (40 to 104°F)	
	Keep away from strong oxidizers.	
	Normal warehouse storage in cool, dry area is satisfactory.	
Section 8: Exposure Controls / P	ersonal Protection	
Control Parameters	Contains no substances with occupational exposure limit values.	
Exposure Controls	Normal ventilation is sufficient.	
	Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.	
	Do not eat, drink or smoke when using this product.	
Eye protection	Wear safety glasses.	
Body protection	Wear protective gloves and clothing.	
Respiratory protection Do not breathe dust.		

Section 9: Physical	Properties		
	ysical and chemical properties		
Appearance:	Powder Translucent amber beads	Explosion Limits (Upper/Lower):	Not Applicable
Odor:	None	Flash Point:	Not applicable
Odor Threshold: pH:	Not Established Not applicable	Flammability:	Not flammable until all moisture is removed; resin starts to burn in flame at 230°C
Melting Point:	0 °C (water); Not determined for solid	AutoIgnition Temperature:	Not Established
Boiling Point:	100 °C (water); Not determined for solid		Not Established
Relative Density:	44 -55 lb./cu. Ft.	VaporPressure:	Not Established
Solubility:	Insoluble in water	VaporDensity:	Not Established
Partition Coefficient:	Not Established	Evaporation Rate:	Not Established
Viscosity:	Not Applicable		
Section 10: Stability	and Reactivity		
Reactivity	No hazardous reaction	ons if stored and handled as i	ndicated.
Chemical Stability	Freezing resin my ca	use beads to crack.	
		handling and storage condition	
Hazardous Reactions	No hazardous reaction polymerization will no	No hazardous reactions are expected in normal laboratory use. Hazardous polymerization will not occur.	
Conditions to Avoid		temperatures can cause pro	-
Materials to Avoid	-	oxidizers will degrade materia	
Hazardous decompositio	alkylbenzenes, vinyl	products include carbon mor benzenes, phenol and phosp	horic acid.
	No hazardous decon section 5.	nposition products if stored ar	nd handled as indicated. See also
Section 11: Toxicolo	ogy Information		
Acute Toxicity			
Oral Effects	low.	No data available for acute oral effects. Single dose oral toxicity is believed to be low.	
Inhalation Effects	Inhalation LC50 has not been determined. Vapors are unlikely due to physical properties, however if dust is observed, avoid inhaling.		
Dermal Effects	Dermal LD50 has no	t been determined.	
Skin corrosion/irritation			
Serious eye damage/irrit		e regarding skin irritation. Sli	ght irritation expected.
	No test data availabl	e. Slight irritation expected.	
Respiratory or skin sensi			
	No data available reg	garding respiratory sensitization	on effects of this product.
Germ Cell Mutagenicity			
	No data available reg	parding mutagenic effects of t	his product.
Carcinogenicity			
	No data available reg	parding carcinogenic effects o	of this product.
Reproductive Toxicity			
		parding reproductive effects o	f this product.
Specific Target Organ To	-		
Single Exposure		garding specific target organ t	
Repeated Exposure Aspiration Hazard	No data available reo	garding specific target organ t	oxicity repeated exposure.
	No data available reg	parding the aspiration hazard	of this product.
Other			
	No data are available of compositionally sin		nation shown is based on profiles

Section 12: Ecological Inform	nation	
	*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.	
Persistance and degradability	No data are available for persistance 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.	
Other	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
Section 13: Disposal Consid	erations	
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 Inform	nation	
Air Transport:	Not Hazardous per IATA 2014	
Ground Transport:	Not D.O.T. Hazardous	
Water Transport:	Not Hazardous per IMDG 2012.	
Section 15: Regulatory Infor	mation	
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.	
Section 16: Other Informatio	n	
SDS Prepared By:	Eichrom Technologies LLC	
Revision	Replaces 19-Jun-15 Revision	
	28-Aug-15: Fixed linkages to print CAS numbers in component section.	
	19-Jun-15: Updated to GHS SDS format, including classification	
	been gathered from standard reference materials and is to the best knowledge and belief of e and reliable. Such information is offered solely for your consideration, investigation and	

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