SAFETY DATA SHEET

RE Resin SDS - Bulk and Cartridge

Section 1: Chemical Product and Company Identification

Product Name RE Resin

Product Number(s): RE-B01-A, RE-B01-F, RE-B01-S, RE-B25-A, RE-B25-F, RE-B25-S, RE-B50-A, RE-B50-F,

RE-B50-S, RE-R01-S, RE-R50-S

Product Synonym(s): RE Resin

Identified Uses: Laboratory chemicals, manufacture of substances

Manufacturer: Eichrom Technologies LLC General (8-5 CST M-F)

1955 University Lane Information: 800-422-6693 (in USA)

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Lisle, Illinois 60532 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

Eve Irritant

Acute toxicity, Inhalation (Category 5)

Respiratory Tract Irritation

2.2 GHS Label elements, including precautionary statements

Pictogram:

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Signal Word Warning

Hazard Statement(s):

H315	Causes skin irritation
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H335	May cause respiratory irritation

Precautionary Statement(s):

		- /
Pre	P261 P264 P271 P273	Avoid breathing dust and vapors.
evel	P264	Wash hands thoroughly after handling.
ntio	P271	Use only outdoors or in a well-ventilated area.
)	P273	Avoid release to the environment.
	P280	Wear protective gloves and eye protection.
Re	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
Response	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.
	P362+P364	Take off contaminated clothing and wash before reuse.
	P391	Collect Spillage.

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	တ္ P403+P233	Store in a well-ventilated place. Keep container tightly closed.
,	P405	Store locked up.
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	Disposal	Dispose of contents/container in accordance with federal, state, and local regulations.

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2.3 Hazards Not Otherwise Classified (HNOC) or not covered by GHS:

Section 3: Composition / Information on Ingredients			
Component		CAS_Number	Percentage Range
Nonionic Acrylic Ester Polymer		Trade Secret	60%
TriButylPhosphate		126-73-8	23%
Octyl (phenyl)-N,N-diisobutyl carbamoylmethylphosphine oxide		83242-95-9	17%
Section 4: First-aid Measures			
Ingestion	IF SWALLOWED: (Call a POISON CONTR	ROL 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	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
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 in	nformation 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 Measures			
Extinguishing Media	Foam, CO2, Dry Ch	emical	
Fire and Explosion Hazards	be toxic.		eased and extinguishing water runoff may
	Polymer does not su	ipport flame.	
Protective Equipment	Wear positive press protective equipmen		thing apparatus and full personal
Special Hazards	Possible combustion products include phosphorous oxides, phosphoric acid, carbon dioxide, and carbon monoxide, in addition to unidentified organic compounds.		
Section 6: Accidental Release Measures			
Personal precautions	Avoid breathing vap	ors, mist, or gas. See	section 8.
	Surface may be slip		
		I protect equipment (sp	•
Methods and materials for containment and clean-up			e container for disposal.
Reference to other sections	For disposal see see	ction 13.	
Section 7: Handling and Storage			
Conditions for safe handling		•	nalation of vapor or mist.
		aust if dust is formed.	
Conditions for safe storage		storage in cool, dry area	a is satisfactory.
Specific End Hee/e	Keep away from stro		no other enecific upon are stimulated
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 ACGIH, TLV-TWA for Tributylphosphate is 2 ppm.

Per OSHA, PEL TWA is 5 mg/m3 for Tributylphosphate.

Per NIOSH, REL TWA is 0.2 ppm (2.5 mg/m3) for Tributylphosphate and IDLH is 30

ppm for Tributylphosphate

Exposure Controls Mechanical exhaust is required.

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and

immediately after handling the product.

Eye protection Wear safety glasses.

Body protection Wear protective gloves, clothing, and eye protection.

Respiratory protection Use NIOSH/MSHA approved respirator when handling material outside of

mechanical exhaust. An air-purifying respirator with an organic vapor cartridge or

canister may be permissible.

Section 9: Physical Properties

Information on basic physical and chemical properties

Appearance: Powder Explosion Limits Not Established.

(Upper/Lower):

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Odor: Odorless
Odor Threshold: No data available

Odorless Flash Point: Not applicable.

Flammability: May form combustible dust concentrations in air.

pH: Not Relevant

AutoIgnition Temperature: 427 °C (800.6°F) estimated

Boiling Point: No data available. Decomposition
Temperature

No data available.

white, spherical beads

sition No data available

Relative Density: 0.6 g/mL at 25°C.

Solubility: Practically insoluble in water. VaporPressure: Not Applicable.

Partition Coefficient: No data available. VaporDensity: Not Applicable.

Viscosity: Not Applicable Evaporation Rate: <1 (Butyl Acetate = 1).

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.

Materials to Avoid Contact with strong oxidizers will degrade material.

Hazardous decomposition Products Possible combustion products include phosphorous oxides, phosphoric acid, carbon

dioxide, and carbon monoxide; additional unidentified organic compounds may also

be produced.

Section 11: Toxicology Information

Toxicity

Melting Point:

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Oral Effects	CMPO, oral LD50 >5000 mg/kg.

Polymer, Oral LD50 > 5,000 mg/kg (rat)

Tributylphosphate, Oral LD50 is 1189 mg/kg (mouse). Tributylphosphate, Oral LD50 is 3000 mg/kg (rat).

RE Resin, estimated oral LD50 is >5000 mg/kg (mouse).

Inhalation Effects Tributylphosphate, inhalation LC50 is 2529 ppm (rat - 1 hr) [or 28000 mg/m3]

Tributylphosphate, inhalation LC50, mouse: 1300 mg/m3.

RE Resin, estimated inhalation LC50, vapor is 11,000 ppm (rate - hr) [or 43 mg/l]

Eye Effects Tributylphosphate, Draize test, rabbit, eye: 500 mg Severe.

Dermal Effects CMPO, dermal LD50 >2000 mg/kg.

Polymer, Dermal LD50 > 5,000 mg/kg (rabbit)

Tributylphosphate, dermal LD50 is >3100 mg/kg (rabbit)

RE Resin, estimated oral LD50 is >5,000 mg/kg (mouse).

Skin corrosion/irritation

Tributylphosphate is a mild skin irritant (rabbit). No data available for other

components.

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Serious eye damage/irritation		
	Tributylphosphate is a mild eye irritant (rabbit). No components.	data available for other
Respiratory or skin sensitization		
	No data available regarding respiratory or skin sens	sitization effects of this product.
Germ Cell Mutagenicity		
	No data available regarding mutagenic effects of th	is product.
Carcinogenicity		
	No component of this product present at levels great identified as a carcinogen or potential carcinogen be	
	No component of this product present at levels great identified as a known or anticipated carcinogen by I	
	No component of this product present at levels great identified as probable, possible, or confirmed huma	
	No specific data available for some components. Material.	finimize direct exposure to
	Tributylphosphate, Limited evidence of carcinogenic Kidney, Ureter, Bladder: tumors; Mouse, Oral, Liver	
Reproductive Toxicity		
	No data available regarding reproductive effects of	this product.
Specific Target Organ Toxicity		
Single Exposure	No data available regarding specific target organ to	xicity single exposure.
Repeated Exposure	No data available regarding specific target organ to	xicity repeated exposure.
Aspiration Hazard		
	No data available regarding aspiration hazards asse	ociated with this product.
Section 12: Ecological Inforn	nation	
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	No data are available on the adverse effects of this material on the environment.
Aquatic Toxicity	
Acute Toxicity to fish	Tributylphosphate - LC50, Carassius auratus (goldfish) - 8.8 mg/l - 96 hr
	RE Resin - Estimated LC50, Carassius auratus (goldfish) - 38 mg/l - 96 hr
Acute Toxicity to aquatic invertebrates	Tributylphosphate - EC50, Daphnia magna (water flea) - 3.6 mg/l - 48 hr
	RE Resin - Estimated EC50, Daphnia magna (water flea) - 16 mg/l - 48 hr
Acute toxicity to aquatic plants	Tributylphosphate - EC50, Desmodesmus subspicatus (green algae) - 1.1 mg/l - 72 hr
	RE Resin - Estimated EC50, Desmodesmus subspicatus (green algae) - 4.7 mg/l - 72 hr
Persistance and degradability	
Biodegradability	Tributylphosphate - aerobic biodegradability - exposure time 28 d, 89% - readily biodegradable.
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. Very toxic to aquatic life with long lasting effects.

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

Not Hazardous per IATA 2014 Air Transport:

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Section 14: Transport Information

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

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research and development (R&D) exemption.

US State Regulations

A component, Tributylphosphate [CAS 126-73-8], is listed on the following state

right to know lists: CA, MA, MN, NJ, PA

Section 16: Other Information

Revision Updated to GHS SDS format, including classification

1-Feb-2018: Update Emergency Phone Numbers

SDS Prepared By: Eichrom Technologies LLC

The information set forth herein has been gathered from standard reference materials and is to the best knowledge and belief of Eichrom Technologies LLC, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and does not suggest or guarantee that the hazard precautions or procedures mentioned are the only ones that exist. Eichrom Technologies LLC makes no warrantees, express or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefore.