

HAMILTON COMPANY

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MATERIAL SAFETY DATA SHEET

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Abbreviations: n/a, not available or applicable; n/d, not or none determined

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Components	CAS #	wt%	OSHA PEL - TWA	ACGIH TLV - TWA
Poly(styrene-divinylbenzene)				
Sulfonate Exchanger	not assigned	38-95	n/d	n/d
Sodium azide	26628-22-8	0-1	0.3mg/m ³	0.3mg/m ³
Propylene glycol	57-55-6	0-3	n/d	n/d
Water	n/a	balance	n/a	n/a

This MSDS is for a range of products, all of which contain HC-75 resin that is accompanied by a microbial growth inhibitor. In general, bottles of resin that accompany columns will contain resin in a propylene glycol and water solution; resin sold in bulk is in a water-wet cake with a trace of sodium azide. These products can be packaged in any volume (cc) or weight (g), and can contain resin having an average particle size from 10 to 15µm. Refer to the product label for actual resin volume and particle size. Resin that is in columns poses no hazard as long as the end fittings remain installed; exposed resin will have hazards relating to the chromatographic mobile phases and samples last used.

CAS# - Chemical Abstract Service number
 PEL - Permissible Exposure Limit
 TWA - Time-Weighted (8 hour) Average (value to which workers can be exposed for a normal 8-hr day, 40-hr week without ill effects)
 TLV - Threshold Limit Value
 OSHA - Occupational Safety and Health Administration
 ACGIH - American Conference of Governmental Industrial Hygienists

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance: Light brown cake	Odor: Nearly odorless
Melting Point: n/a	Specific Gravity: 1.2 for polymer
Boiling Point: n/d	Evaporation rate: n/d
Vapor Density: n/d	Vapor Pressure: n/a
Solubility in water: polymer is insoluble	Water reactivity: none

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Material is not combustible. Flash Point: will not flash
 Auto-Ignition Temperature: n/d Flammability Limits in Air: n/a
 Extinguisher Media: Foam, dry chemical
 Special Fire Fighting Procedures: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
 Unusual Fire and Explosion Hazards: n/d

SECTION 4 - REACTIVITY HAZARD DATA

Material is stable. Hazardous polymerization will not occur.
 Conditions to avoid: n/d
 Materials to avoid: Concentrated nitric acid or other strong oxidizing agents

Hazardous Decomposition Products: n/d

SECTION 5 - HEALTH HAZARD DATA

Primary exposure routes: Ingestion, inhalation, eye and skin contact

Carcinogenicity (sodium azide): Questionable

Health Hazards of polymer: To the best of our knowledge, the health effects of this product have not been thoroughly studied.

Health Hazards of sodium azide: May cause eye and skin irritation, nausea or headache. Chronic effects: may alter genetic material, may target nerves, heart, brain. At the very low concentrations used in this product, however, the health hazards are expected to be minimal.

Health Hazards of propylene glycol: None identified.

Signs and Symptoms of Overexposure: Skin or eye irritation, nausea or headache

Medical Conditions Generally Aggravated by Exposure: Dermatitis

EMERGENCY FIRST AID PROCEDURES - Seek medical attention for further treatment or observation if necessary.

Eye Contact: Flush with copious amounts of water for 15 minutes.

Skin Contact: Wash thoroughly with soap and water.

Inhalation: Remove to fresh air.

Ingestion: Wash out mouth with water if person is conscious; consult a physician.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection: Normal ventilation

Protective Gloves: Thin latex gloves may be used to eliminate skin exposure.

Eye Protection: Wear safety glasses.

Other Protective Clothing and Equipment: A dust mask may be worn to prevent inhalation of airborne particles (if resin becomes dry).

Hygienic Work Practices: Keep away from food.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Handling Information and Recommendations: Keep the material wet with water or aqueous solution.

Steps to be Taken if Material is Spilled or Released: Avoid drying and dispersing the resin particles into the air. If material is spilled on the floor, it can be slippery. Clean up with soap and water; rinse area with water.

Waste Disposal: According to local, state, and federal regulations

Storage Recommendation: Keep container closed and in a cool, dry place.

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