

MATERIAL SAFETY DATA SHEET

Section 1 - Product and Company Identification

Product Name: **Multiple Affinity Removal Column 4.6x50mm Hu-PL7**
Agilent Part Numbers: **5188-6409**
Date Prepared: **12/12/2005**
Distributed by: **Agilent Technologies, Inc.**
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Section 2 - Composition/Information on Ingredients

The Multiple Affinity Removal column body is made of polyetheretherketone (PEEK) [31694-16-3], the Spin Cartridge body is made of polypropylene [9003-07-0] and they are packed with antibody modified polymeric media wetted by a buffered neutral salt solution containing phosphates; 0.02% sodium azide [26628-22-8] and Hu-PL7 resin, pH 7.4, in water. These antibody-modified media components have no CAS numbers assigned.

Chemical Families: Antibody-modified polymer in aqueous buffered salt solution with phosphates

Chemical Synonyms: None

Section 3 - Hazards Identification

No adverse human health effects have been observed upon exposure to the substances in this column.

Section 4 - First-Aid Measures

Inhalation: If breathing is difficult, move affected person to fresh air. **Skin Contact:** If irritation occurs, wash with soap and water. **Eye Contact:** If irritation occurs, irrigate the eyes with copious amounts of water by separating the eyelids with fingers. **Ingestion:** If swallowed, get medical attention immediately.

Section 5 - Fire-Fighting Measures

Extinguishing Media: Appropriate to surroundings. **Special Fire Fighting Procedures:** Wear full protective clothing and self-contained positive pressure breathing apparatus certified by NIOSH when fighting chemically related fires. **Unusual Fire and Explosion Hazards:** None

Section 6 - Accidental Release Measures

Wearing appropriate personal protective equipment, sweep up using a dust suppresser. Vacuum the remainder of the smaller quantities using a HEPA-type vacuum. Avoid inhaling dust. Place waste in a plastic bag or other suitable container and dispose of as residual waste. This material is not defined as hazardous waste by RCRA (40 CFR Part 261) and may be landfilled according to federal, state and local regulations.

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Section 7 - Handling and Storage

Wash thoroughly after handling. Maintain good housekeeping practices. Keep containers closed. Do not store with incompatible materials. Store in a cool, dry place.

Section 8 - Exposure Controls/Personal Protection

Ventilation: Adequate ventilation is required to protect personnel from exposure to chemical vapors or dusts exceeding PEL and to minimize fire hazards. See Section 15 for regulatory standards of exposure. **Respiratory:** Use NIOSH approved respirator equipment. See Section 15.

Eyes: Safety glasses are considered minimum protection. Chemical safety goggles or face shield may be necessary depending on quantity of material and conditions of use. Emergency eye wash fountains should be available in the vicinity of any possible exposure. **Skin:** Chemical-resistant protective gloves and clothing are recommended. The choice of protective gloves or clothing must be based on chemical resistance and other user requirements. Generally BUNA-N offers acceptable chemical resistance. Individuals who are acutely and specifically sensitive to this chemical may require additional protective clothing.

Section 9 - Physical and Chemical Properties

Flash Point (Method Used):	NA	Explosion Potential: LEL (NA)/UEL (NA)
Specific Gravity (H ₂ O = 1):	NA	Melting Point (Degree F): NA
Evaporation Rate (n-butyl acetate =1)	NA	Boiling Point (Degree F): NA
Vapor Pressure (mm Hg at 25°C):	ND	Vapor Density (Air =1): NA
Odor Threshold:	ND	Octanol/Water Partition Coefficient: NA
Solubility in Water: Insoluble (X) /Soluble ()		
Appearance and Odor: Columns, no odor.		

Section 10 - Stability and Reactivity

Stability: Stable (x) / Unstable () **Conditions to Avoid:** NA
Incompatibility (Materials to Avoid): NA
Hazardous Decomposition or Byproducts: NA
Hazardous Polymerization: May Occur () / Will Not Occur (x)

Section 11 - Toxicological Information

Route(s) of Entry: Inhalation? No Skin? No Eyes? No Ingestion? No
Health Hazard Acute/Chronic: No adverse human health effects have been observed upon exposure to the substances in this column.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No Others? No
Medical Conditions Generally Aggravated by Exposure: None known.

Section 12 - Ecological Information

Persistence/Degradability: ND
Biodegradability: ND
Bioaccumulation: NA

Section 13 - Disposal Considerations

Unused product is not hazardous as defined by RCRA (40 CFR Part 261). Unused material may be landfilled as a residual waste according to federal, state and local regulations.

Section 14 - Transport Information**DOT Regulations:****Shipping Name:** Non-regulated Material**RID/ADR:** NA**ADNR:** NA**IATA-DGR Regulations:****Shipping Name:** Non-regulated Material**Section 15 - Regulatory Information****Exposure Limits:** There are no established exposure limits for the substances in the columns.**SARA Reporting:** Section 302: None Section 304: None Section 313: None**OSHA Labeling Requirements:** None**Section 16 - Other Information**

Unless otherwise noted, the above information pertains only for the base material and similar types of components in the sample.

When no toxicity data is provided, it is prudent to handle this chemical as hazardous. Furthermore, since individual chemical hypersensitivity cannot be predicted, every chemical should be handled with due respect.

KEY TO ABBREVIATIONS**ACGIH** - American Conference of Governmental Industrial Hygienists` **ADNR** - Regulations concerning the carriage of dangerous goods on the Rhine **CAS** - Chemical Abstract Service **DOT** - US Department of Transportation 49 Code of Federal Regulations **IARC** - International Agency for Research on Cancer **IATA-DGR** - International Air Transport Association- Dangerous Goods Regulation **LEL** - Lower Explosion Limit **NA** - Not Applicable **ND** - No Data **NIOSH** - National Institute for Occupational Safety and Health **NTP** - National Toxicology Program **OSHA** - Occupational Safety and Health Administration **PEL** - Permissible Exposure Limit **RID/ADR** - Regulations Concerning the International Carriage of Dangerous Goods by Rail/European Agreement Concerning the International Carriage of Dangerous Goods by Road **TLV** - Threshold Limit Value **TWA** - Time Weighted Average **UEL** - Upper Explosion Limit [] - Indicates CAS Number