

MILLIPORE

Health, Safety & Environment

Activated PROSEP®

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

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Information

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PRODUCT: Activated PROSEP

Product Numbers:

5CHO 1131004XX, 1151004XX

9CHO 1133004XX, 1153004XX

MSDS Number: **M102,166**

Issue Date: April 6, 2000

Rev. Date: -

Revision: --

SUBSTANCE IDENTIFICATION

SUBSTANCE: Proprietary organic compounds covalently bound to porous glass

USE: Affinity Chromatography Media

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS No.	EINECS No.	Percent by wt.
Proprietary organic compounds covalently bound to porous glass	Not assigned	Not assigned	100

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: White powder, Stable and non-combustible.

Major Health Hazards: Possible eye, skin, respiratory and gastrointestinal tract irritant

Physical Hazards: Not expected to present physical hazards.

Health Effects

Route of Entry Potential Health Effects and Symptoms of Exposure

Skin: May cause skin irritation. Severe contact with the skin may cause drying of the skin.

Eyes: May cause eye irritation. Severe contact with the eyes may cause physical damage to the eyes

Ingestion May cause irritation of gastrointestinal tract.

Inhalation: May cause irritation of respiratory tract.

Target organs: Low risk of silicosis (lungs) unless exposure is prolonged or repeated.

Medical No Information has been found.

Conditions Aggravated by Exposure:

SECTION 4 - FIRST AID

Ingestion: If victim is conscious and alert, give plenty of water. If unconscious, give nothing by mouth and seek medical attention for victim.

Eyes: Flush eyes with plenty of water for at least 15 minutes; occasionally lifting upper and lower lids. Seek medical attention if irritation persists.

First Aid (continued)

- Skin:** Wash exposed skin with soap and water while removing contaminated clothing and shoes. Seek medical attention if irritation develops or persists. Launder contaminated clothing before wearing.
- Inhalation:** Remove exposed person to fresh air immediately. If breathing is difficult, administer oxygen. If victim is not breathing, administer artificial respiration. Get medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Fire & Explosion Hazards: Product is non-flammable; no special measures are required.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Spills and Leaks:** Apply water if possible to prevent raising dust. Wipe or sweep up and collect in container for disposal. Wash area with detergent and water. Wear gloves, goggles and other protective clothing, including dust mask if the product is dry.

SECTION 7- HANDLING AND STORAGE

Wear safety glasses or goggles, and gloves. Take precautions to avoid spillage. Preferably re-suspend in shipping container; avoid dry transfer.. Once re-suspended, store at 2°C to 8°C and do not freeze. Wash hands thoroughly after use.

SECTION 8 - PERSONAL PROTECTION AND EXPOSURE CONTROL

- Ventilation:** Under ordinary conditions of use, local exhaust should not be required. If processing technique is such that glass dust is generated use local exhaust to control exposure below applicable exposure limits.

Personal Protection (continued)

- Personal Protection:** Wear safety glasses or goggles and appropriate protective clothing and gloves to prevent skin contact under conditions of use.
- Respirator Use:** Respiratory protection is not required under normal conditions of use. If respiratory protection is deemed necessary, follow OSHA respirator regulations in 29 CFR 1910.134 (or local equivalent) Use a NIOSH-approved dust/mist mask (or local equivalent).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Physical State:** Dry white powder.
- Specific Gravity:** Not available
- Odor:** None
- Odor threshold:** Not available
- Water solubility:** Insoluble
- pH:** Not applicable
- Melting Point:** Not available
- Boiling Point:** Not available
- Vapor Pressure:** Not available
- Vapor Density (Air equals 1.00):** Not applicable
- Volatility:** Nil
- Evaporation Rate:** Not applicable
- Coefficient of water/oil distribution:** Not applicable

SECTION 10 - STABILITY AND REACTIVITY

- Chemical Stability:** Stable
- Hazardous Polymerization:** Will not occur.
- Conditions to Avoid:** Strongly alkali (greater than pH 9) or acidic (less than pH 1) solutions.
- Incompatible with:** Strong oxidizers, strong acids and bases.
- Hazardous Decomposition Products:** Oxides and other compounds of carbon, and nitrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

Carcinogenicity: Not listed as carcinogenic by IARC, NIOSH, NTP, or OSHA.

Acute Effects: Possible skin, eye, respiratory and gastrointestinal tract irritation.

Chronic Effects: No Information available.

Exposure Limits:

Ingredient	OSHA PEL, <u>mg/m³</u>	ACGIH TLV <u>mg/m³</u>	NIOSH REL <u>mg/m³</u>
Proprietary organic compounds covalently bound to porous glass	None established	None established	None established
Glass dust, high silica, amorphous	1	0.1 (fused silica)	6

SECTION 12 - ECOLOGICAL INFORMATION

No data is available on the Ecotoxicity or Environmental Fate of PROSEP Affinity Adsorbent products.

SECTION 13 - DISPOSAL INFORMATION

The components of these products are not listed as RCRA D, F, P, or U Series hazardous wastes. Wastes containing these products should be disposed of in a manner consistent with federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

These products are not currently regulated by USDOT, ICAO/IATA, ADR or IMO as hazardous materials or dangerous goods.

SECTION 15 - REGULATORY INFORMATION

PROSEP 5CHO, 9CHO and HYDRAZIDE are not listed on the Toxic Substances Control Act (TSCA) Chemical Inventory. In the United States, their use is restricted to research and development or FDA regulated activities See regulations in 40 CFR 700 for details.

California No significant Risk Level: None of the chemicals in this product are known to Millipore Corporation to be listed.

European Labeling in Accordance with EC Directives:

Hazard Not applicable

Symbols:

Risk Phrases: Not applicable

Safety Phrases: Not applicable

Canada: this product has a WHMIS classification of unclassified.

SECTION 16- ADDITIONAL INFORMATION

These products consist of surface modified porous glass particles in the range 75-125 micron and presents no respiratory hazard. However, if the glass is treated roughly, mechanical shearing may cause the particle size to fall into the hazardous range below 10 micron. To prevent this, avoid handling the product dry and never use magnetic or paddle stirrers.

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