PIERCE
a Perbio Science Company

Eng

Material Safety Data Sheet

Conforms to 93/112/EC and ISO 11014-1

Responsible Name **Pierce Administration**

Section 1. Chemical Product and Company Identification

Product name **ProteoSeek™ Resin**

Product No. 1859343

Supplier

In USA:
Pierce
P.O. Box 117
Rockford, IL 61105
USA
815.968.0747 or
1.800.874.3723

In Europe:
Perbio Science
Industriezone III
Industrielaan 27
9320 Erembodegem-Aalst
Belgium
Tel:+32 53 83 44 04
Fax:+32 53 83 76 38

Manufacturer

Pierce Biotechnology
P.O. Box 117
Rockford, IL 61105
USA
815.968.0747 or
1.800.874.3723

In Case of Emergency CALL CHEMTREC:
800.424.9300
OUTSIDE US:
202.483.7616

Print Date 5/10/2004
Validation Date **5/10/2004**
MSDS# 7124

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Section 2. Composition, Information on Ingredients

Substance/Preparation : Preparation

Ingredient Name	CAS No.	%	EC Number	Symbol	R-Phrases
1) Ingredient Name #2		25-45	Not available.	--	Not controlled under dsd (Europe).

Section 3. Hazards Identification

United States

Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

Emergency Overview WARNING!
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
SKIN, EYES, STOMACH.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects Slightly hazardous in case of ingestion, of inhalation.

Carcinogenic Effects Data **CARCINOGENIC EFFECTS**: Classified None. by NIOSH [Sodium Chloride].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms Not available.

Europe

Classification **Not controlled under dsd (Europe).**
Physical/chemical hazards Not applicable.
Human health hazards Not applicable.
Environmental hazards Not applicable.

See Toxicological Information (section 11)

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Section 4. First Aid Measures

Notice to Reader	**Get immediate medical attention.**
Effects and symptoms	
Inhalation	Slightly hazardous in case of inhalation.
Ingestion	Slightly hazardous in case of ingestion.
Skin Contact	Irritation of the product in case of skin contact: Not available. Sensitization of the product: Not available.
Eye Contact	Not available.
Aggravating conditions	Repeated or prolonged exposure is not known to aggravate medical condition.

First-Aid Measures	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Notes to Physician	Not available.
Protection of first-aiders	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Non-flammable.
Flash Points	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Fire Fighting Media and Instructions	Not applicable.
Protective Clothing (Fire)	Not applicable.
Hazardous thermal (de)composition products	Not applicable.

Section 6. Accidental Release Measures

Personal precautions	Safety glasses. Lab coat.
Environmental Precautions and Clean-up Methods	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling	Avoid breathing vapors or spray mists.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Intended Use	Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.
Packaging materials	
Suitable / Not suitable	Use original container.

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Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Exposure Limit Values

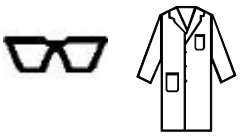
Ingredient Name	Occupational Exposure Limits
United States	
Sweden	
1) Ingredient Name #2	Not available.
Denmark	
1) Ingredient Name #2	Not available.
Norway	
1) Ingredient Name #2	Not available.
France	
1) Ingredient Name #2	Not available.
Netherlands	
1) Ingredient Name #2	Not available.
Germany	
1) Ingredient Name #2	Not available.

Personal Protection

Eyes Safety glasses.

Body Lab coat.

Protective Clothing (Pictograms)



Section 9. Physical and Chemical Properties

Physical State and Appearance Liquid. (Resin. Slurry.)

Odor Odorless.

Molecular Weight Not applicable.

Taste Not available.

pH (1% Soln/Water) 7 [Neutral.]

Color Blue.

Boiling/Condensation Point The lowest known value is 100°C (212°F) (Milli-Q Water).

Melting/Freezing Point May start to solidify at -0.1°C (31.8°F) based on data for: Milli-Q Water.

Specific Gravity The only known value is 1 (Water = 1) (Milli-Q Water).

Vapor Pressure The highest known value is 2.3 kPa (@ 20°C) (Milli-Q Water).

Vapor Density The highest known value is 0.62 (Air = 1) (Milli-Q Water).

Evaporation Rate 0.36 (Milli-Q Water) compared to Butyl acetate.

Dispersion Properties See solubility in water.

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Solubility Easily soluble in cold water.
Partially soluble in hot water.

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions to avoid Reacts violently with water especially when water is added to the product. Heating may cause an explosion. Keep away from heat (Sodium Azide)

Materials to avoid Not available.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products Not applicable.

Section 11. Toxicological Information

Toxicity to Animals **Sodium Azide**:
ORAL (LD50): Acute: 27 mg/kg [Rat]. 27 mg/kg [Mouse].
DERMAL (LD50): Acute: 20 mg/kg [Rabbit].
Sodium Chloride
LD50: Not available.
LC50: Not available.
Ingredient Name #2
LD50: Not available.
LC50: Not available.
Milli-Q Water
LD50: Not available.
LC50: Not available.

Chronic Effects on Humans **CARCINOGENIC EFFECTS**: Classified None. by NIOSH [Sodium Chloride].

Other Toxic Effects on Humans Slightly hazardous in case of ingestion, of inhalation.

Special Remarks on Toxicity to Animals Not available.

Special Remarks on Chronic Effects on Humans Not available.

Special Remarks on Other Toxic Effects on Humans Not available.

Section 12. Ecological Information

Mobility Not available.

Persistence/degradability Not available.

Bioaccumulative potential Not available.

Ecotoxicity Not available.

Germany water class VCI WGK: No products were found.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

Consult your local or regional authorities.

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Section 14. Transport Information

Contact the supplier for all information regarding the proper transportation method for this material.

Section 15. Regulatory Information

Label Requirements (Europe)

This product is not classified according to the EU regulations.

HCS Classification --

U.S. Federal Regulations

TSCA 8(b) inventory: Sodium Azide; Sodium Chloride; Milli-Q Water
TSCA 8(d) H and S data reporting: Sodium Azide
SARA 302/304/311/312 extremely hazardous substances: Sodium Azide
SARA 302/304 emergency planning and notification: Sodium Azide
SARA 302/304/311/312 hazardous chemicals: Sodium Azide; Sodium Chloride
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Azide: immediate health hazard; Sodium Chloride: immediate health hazard, delayed health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada).

CEPA DSL: Sodium Azide; Sodium Chloride; Milli-Q Water

CEPA NDSL: Sodium Azide

International Regulations

EINECS Not available.

DSCL (EEC) This product is not classified according to the EU regulations.

International Lists Australia (NICNAS): Sodium Azide; Sodium Chloride; Milli-Q Water

Germany water class: Sodium Azide; Sodium Chloride

Korea (TCCL): Sodium Azide; Sodium Chloride; Milli-Q Water

Philippines (RA6969): Sodium Azide; Sodium Chloride; Milli-Q Water

State Regulations Pennsylvania RTK: Sodium Azide: (environmental hazard, generic environmental hazard)
Florida: Sodium Azide
Minnesota: Sodium Azide
Massachusetts RTK: Sodium Azide
New Jersey: Sodium Azide
California prop. 65: No products were found.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)

Health	*	1
Fire Hazard		0
Reactivity		0
Personal Protection		a

National Fire Protection Association (U.S.A.)

References Not available.

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History of Document Changes Any information changes since last document version are marked with a triangle symbol.

Full text of R-Phrases referenced under headings 2 and 3: Not applicable.

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

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Verified by Pierce Administration.

Date of Previous Issue **No Previous Validation**

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Version **1**