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Material Safety Data Sheet

Pierce® Protein A, Peroxidase Conjugated

1. Product and company identification

: Pierce® Protein A, Peroxidase Conjugated

: Immunopure Recomb Protein A-Peroxidase Conjugated Synonym

: Thermo Fisher Scientific Manufacturer Supplier

Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 United States 815.968.0747 or 800.874.3723

Thermo Fisher Scientific Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 United States 815.968.0747 or 800.874.3723

Code : 0032400 0032400B

MSDS# : 2188 Validation date : 8/8/2011. : 8/8/2011. Print date

: MSDS (Regulatory Specialist) Responsible name

: CHEMTREC:

800.424.9300 **OUTSIDE US:** 703.527.3887

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

applications.

Material uses

Product type : Solid

2. Hazards identification

Emergency overview

In case of emergency

Physical state : Solid. [Lyophilized.]

Color : White. Signal word : WARNING!

Hazard statements : MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY CAUSE RESPIRATORY

TRACT. EYE AND SKIN IRRITATION.

Precautionary measures : Use only with adequate ventilation. Avoid contact with eves, skin and clothing. Keep

container tightly closed. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Eve contact, Inhalation, Ingestion,

Potential acute health effects

Inhalation ; Slightly irritating to the respiratory system. May cause sensitization by inhalation

Ingestion : No known significant effects or critical hazards.

Skin : Slightly irritating to the skin. Eyes : Slightly irritating to the eyes.

Potential chronic health effects

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Chronic effects : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

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2. Hazards identification

Carcinogenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. Mutagenicity Teratogenicity : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing wheezing and breathing difficulties

asthma

Ingestion : No specific data.

Skin : Adverse symptoms may include the following: irritation

: Adverse symptoms may include the following: Eyes

irritation watering redness

Medical conditions : Pre-existing respiratory disorders may be aggravated by over-exposure to this product.

aggravated by overexposure

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Peroxidase	9003-99-0	65 - 80

Canada

Name	CAS number	%
Peroxidase	9003-99-0	65 - 80

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eve contact

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately

Inhalation

Ingestion

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: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

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: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

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4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

pollution (sewers, waterways, soil or air).

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

Hazardous thermal decomposition products

Special protective equipment for fire-fighters : No specific data.

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental

Methods for cleaning up Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container

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7. Handling and storage

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Canada

Occupational exposure limits

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

Eyes

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : Solid. [Lyophilized.]

Color : White.

Solubility : Partially soluble in the following materials: cold water and hot water

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10. Stability and reactivity

: The product is stable Chemical stability Conditions to avoid : No specific data. Incompatible materials : No specific data.

Hazardous decomposition

: Under normal conditions of storage and use, hazardous decomposition products should products not be produced.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

United States

Acute toxicity

Conclusion/Summary

: To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available

Reproductive toxicity

Conclusion/Summary : Not available.

Canada

Acute toxicity

Conclusion/Summary : To the best of our knowledge, the toxicological properties of this product have not been

thoroughly investigated.

Chronic toxicity

Conclusion/Summary : Not available

Irritation/Corrosion

Conclusion/Summary : Not available

Sensitizer

: Not available. Conclusion/Summary

Carcinogenicity

Conclusion/Summary : Not available

Mutagenicity

Conclusion/Summary : Not available

Teratogenicity

Conclusion/Summary : Not available

Reproductive toxicity

Conclusion/Summary : Not available. Pierce® Protein A, Peroxidase Conjugated

12. Ecological information

: No known significant effects or critical hazards. **Ecotoxicity**

United States

Aquatic ecotoxicity

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available

Canada

Aquatic ecotoxicity

Conclusion/Summary Not available

Persistence/degradability

Conclusion/Summary : Not available

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
DOT Classification	Not regulated.	-	-	-
IATA-DGR Class	Not regulated.	-	-	-

PG* : Packing group

15. Regulatory information

United States

HCS Classification : Sensitizing material

U.S. Federal regulations

: TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): At least one component is not listed.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Peroxidase

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Peroxidase: Immediate (acute) health hazard

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15. Regulatory information

Clean Air Act Section 112(b) Hazardous Air

: Not listed

: Not listed

Pollutants (HAPs)

Clean Air Act Section 602 : Not listed Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals

(Precursor Chemicals)

DEA List II Chemicals : Not listed

(Essential Chemicals)

State regulations

Massachusetts : None of the components are listed. **New York** : None of the components are listed. **New Jersey** : None of the components are listed. Pennsylvania : None of the components are listed. **United States inventory** : At least one component is not listed.

(TSCA 8b)

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

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists : Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined.

Japan inventory: Not determined. Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined

16. Other information

Label requirements : MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

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



The customer is responsible for determining the PPE code for this material.

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

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16. Other information



Date of printing : 8/8/2011. Date of issue : 8/8/2011.

Date of previous issue : No previous validation.

Version : 1

Prepared by : MSDS (Regulatory Specialist)

▼Indicates information that has changed from previously issued version.

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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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