Thermo Fisher SCIENTIFIC

Material Safety Data Sheet Revision Date 27-May-2010

Creation Date 27-May-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

| Product Name | Pacific Hemostasis® Factor VIII Deficient Plasma, Human |
|---|--|
| Cat No. | 100800, 200800, 250800 |
| Synonyms | No information available. |
| Recommended Use | In vitro diagnostic |
| Company Fisher Diagnostics A Division of Fisher Scientific Company | Emergency Telephone Number Chemtrec US: (800) 424-9300 , LLC Chemtrec EU: (202) 483-7616 |

A Part of Thermo Fisher Scientific, Inc. 8365 Valley Pike Middletown, VA 22645-1905 Tel: (800) 528-0494

2. HAZARDS IDENTIFICATION

Emergency Overview

Potential Biohazard. Contains human sourced material. Handle as potentially infectious. Handle in accordance with good industrial hygiene and safety practice. May cause eye, skin, and respiratory tract irritation .

| Appearance Buff - Yellow | Physical State Lyophilized | odor odorless |
|---|---|----------------------|
| Target Organs | None known. | |
| Potential Health Effects | | |
| Acute Effects Principle Routes of Exposure | | |
| Eyes Skin Inhalation Ingestion | May cause irritation. May cause irritation. May be harmful in contact with skin. May cause irritation of respiratory tract. May be harmful if inhaled. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation and diarrhea. | on, nausea, vomiting |
| Chronic Effects | None known. | |

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

| Component | CAS-No | Weight % |
|--------------------------------|-----------|----------|
| FVIII Deficient Plasma (Human) | NA | > 98% |
| HEPES | 7365-45-9 | < 2% |

4. FIRST AID MEASURES

| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention. |
|--------------------|---|
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. |
| Inhalation | Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur. |
| Ingestion | Do not induce vomiting. Obtain medical attention. |
| Notes to Physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| Flash Point Method | Not applicable No information available. |
|---|--|
| Autoignition Temperature | No information available. |
| Explosion Limits Upper Lower | No data available No data available |
| Suitable Extinguishing Media | Substance is nonflammable; use agent most appropriate to extinguish surrounding fire |
| Unsuitable Extinguishing Media | No information available. |
| Hazardous Combustion Products | No information available. |
| Sensitivity to mechanical impact Sensitivity to static discharge | No information available. No information available. |
| | |

Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

| NFPA | Health 1 | Flammability 0 | Instability 0 | Physical hazards N/A |
|-------------------------|--------------------------------|---|---------------|----------------------|
| | 6. ACCIDENTAL RELEASE MEASURES | | | |
| Personal Precaut | | Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. | | |
| Environmental Pr | recautions | Should not be released into the env | vironment. | |
| Methods for Cont Up | | Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of cleanup material in marked biohazard container. | | |
| 7. HANDLING AND STORAGE | | | | |

| Handling | Handle as potentially infectious. Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. |
|----------|---|
| Storage | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures between 2° and 8 °C. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Engineering Measures | Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. |
|---|---|
| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| NIOSH IDLH: Immediately Dangerous to Life or Health | |

| Personal Protective Equipment | |
|--|--|
| Eye/face Protection | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166 |
| Skin and body protection Respiratory Protection | Wear appropriate protective gloves and clothing to prevent skin exposure Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced |

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor Odor Threshold pH Vapor Pressure Vapor Density Lyophilized Buff - Yellow odorless No information available. No information available. No information available. No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Viscosity Boiling Point/Range Melting Point/Range Decomposition temperature Flash Point Evaporation Rate Specific Gravity Solubility log Pow No information available. No information available. No information available. No information available. Not applicable No information available. No information available. Soluble in water No data available

10. STABILITY AND REACTIVITY

| Stability | Stable under normal conditions. |
|----------------------------------|--|
| Conditions to Avoid | Avoid dust formation. Excess heat. |
| Incompatible Materials | None known |
| Hazardous Decomposition Products | Thermal decomposition can lead to release of irritating gases and vapors |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions . | None under normal processing. |

11. TOXICOLOGICAL INFORMATION

| Acute Toxicity | |
|---|---|
| Product Information | No acute toxicity information is available for this product |
| Component Information | |
| Irritation | No information available. |
| Toxicologically Synergistic Products | No information available. |
| Chronic Toxicity Carcinogenicity | There are no known carcinogenic chemicals in this product |
| Sensitization | No information available. |
| Mutagenic Effects | No information available. |
| Reproductive Effects | No information available. |
| Developmental Effects | No information available. |

| Teratogenicity | No information available. |
|---------------------------------|---|
| Other Adverse Effects | The toxicological properties have not been fully investigated |
| Endocrine Disruptor Information | No information available |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

| Persistence and Degradability | No information available |
|--------------------------------------|--------------------------|
| Bioaccumulation/ Accumulation | No information available |
| Mobility | No information available |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14. TRANSPORT INFORMATION

DOT

| UN-No | UN2814 |
|----------------------|---|
| Proper Shipping Name | INFECTIOUS SUBSTANCES, AFFECTING HUMANS |
| Hazard Class | 6.2 |

TDG

UN-NoUN2814Proper Shipping NameINFECTIOUS SUBSTANCES, AFFECTING HUMANSHazard Class6.2

IATA

| UN-No | UN3373 |
|----------------------|----------------------------------|
| Proper Shipping Name | BIOLOGICAL SUBSTANCE, CATEGORY B |
| Hazard Class | 6.2 |

IMDG/IMO

| UN-No | UN3373 |
|----------------------|----------------------------------|
| Proper Shipping Name | BIOLOGICAL SUBSTANCE, CATEGORY B |

14. TRANSPORT INFORMATION

Hazard Class

6.2

15. REGULATORY INFORMATION

International Inventories

| Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | CHINA | KECL |
|-----------|------|-----|------|----------|--------|-----|-------|------|------|-------|------|
| HEPES | Х | Х | - | 230-907- | - | | Х | - | Х | Х | - |
| | | | | 9 | | | | | | | |

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Not applicable

| SARA 311/312 | 2 Hazardous | Categorization |
|--------------|-------------|----------------|
|--------------|-------------|----------------|

| Acute Health Hazard | No |
|-----------------------------------|----|
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

Not applicable

Clean Air Act Not applicable

OSHA Not applicable

CERCLA Not Applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Not applicable

U.S. Department of Transportation

| Reportable Quantity (RQ): | Ν |
|-----------------------------|---|
| DOT Marine Pollutant | Ν |
| DOT Severe Marine Pollutant | Ν |

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

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

WHMIS Hazard Class

D3 Biohazardous infectious materials



16. OTHER INFORMATION

| Prepared By | Regulatory Affairs Thermo Fisher Scientific Tel: (412) 490-8929 |
|------------------|---|
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| Print Date | 27-May-2010 |
| Revision Summary | "***", and red text indicates revision |

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS