SAFETY DATA SHEET



Order Number Customer Number

Identification of the substance/preparation and of the company/undertaking 1.

Product name

Synonym

Osteoprotegerin/Fc Chimera, His*Tag, Human, Recombinant, Catalog #

Spodoptera frugiper

Supplier

Manufactured by EMD Biosciences, Inc.

10394 Pacific Center Court San Diego, CA 92121 (858)450-5558/(800)854-3417

FAX: (858)453-3552

499270

rhOPG/Fc Chimera; rhTNFRSFIIB/Fc Chimera

Emergency telephone: Call Chemtrec®

number

(800)424-9300 (within U.S.A.) (703)527-3887 (outside U.S.A.)

Composition / information on ingredients 2.

Substance/Preparation

: Substance

Chemical name* CAS No. EC Number Symbol **R-Phrases** Not available. rhOPG/Fc Chimera: rhTNFRSFIIB/Fc Chimera

Hazards identification 3.

Physical/chemical hazards

: Not applicable.

Human health hazards

: No specific hazard.

First-aid measures

First-Aid measures

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

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. 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. Get medical attention.

Aggravating conditions

: Repeated or prolonged exposure is not known to aggravate medical condition.

5. Fire-fighting measures

Flammability of the Product

: May be combustible at high temperature.

Extinguishing Media

Suitable

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special fire-fighting procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Be sure to use an approved/certified respirator or equivalent. Protection of fire-fighters

Page: 1/4 499270 Catalog #

Accidental release measures

Personal precautions

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Small Spill and Leak

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill and Leak

Use a shovel to put the material into a convenient waste disposal container.

7. Handling and storage

Handling

: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above -70°C (-94°F).

Packaging materials

Recommended use

Use original container.

8. Exposure controls/personal protection

Engineering measures

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Hygiene measures

Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name

Occupational Exposure Limits Not available.

Osteoprotegerin/Fc Chimera, His*Tag, Human,

Recombinant, Spodoptera frugiper

Personal protective equipment

Skin and body

: Lab coat.

Eves

Safety glasses.

Protective Clothing (Pictograms)



Physical and chemical properties

Physical state

: Solid. (Lyophilized from sterile-filtered PBS containing 50 ug BSA/ug cytokine.)

Color

Not available.

Molecular Weight

Not available.

Solubility

Not available.

Flash point

Not available

Explosive properties

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Stability and reactivity

Stability

The product is stable.

Conditions to avoid

Not available

Toxicological information

RTECS #

Not available

Local effects

Skin irritation Not available.

Acute toxicity

LD50: Not available. LC50: Not available.

Chronic toxicity

Repeated or prolonged exposure is not known to aggravate medical condition.

Other Toxic Effects on Humans

Not available.

No specific information is available in our database regarding the other toxic effects of this material for humans.

Page: 2/4 499270 Catalog #

Not available.

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

Carcinogenic effects Not available. **Mutagenic effects** Not available. Reproduction toxicity Not available. Teratogenic effects Not available.

12. Ecological information

Ecotoxicity : Not available.

Toxicity of the Products of Biodegradation

Not available.

Disposal considerations **13.**

Contaminated packaging

Methods of disposal; Waste of residues; : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Transport information

International transport regulations

Land - Road/Railway

ADR/RID Class : Not controlled under ADR (Europe).

<u>Sea</u>

IMDG Class : Not controlled under IMDG.

IATA-DGR Class

: Not controlled under IATA.

Special Provisions for

Transport

Air

Not applicable.

Regulatory information

EU Regulations

Risk Phrases This product is not classified according to the EU regulations.

U.S. Federal Regulations

 TSCA: No products were found. 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: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

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.

HCS Classification Not controlled under the HCS (United States).

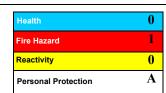
State Regulations

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

No products were found.

Other information **16.**

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



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



Notice to Reader

Page: 3/4 Catalog # 499270

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

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. **This product is intended for research use only.**

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 Date of issue
 6/18/2003.
 Page: 4/4