1. IDENTIFICATION
1.1. Product Name          B18R Recombinant Protein, Carrier-Free
1.2. Catalog Number        03-0017
1.3. Uses and restrictions For research use only. Not for use in diagnostic or therapeutic applications
1.4. Manufacturer/Supplier Stemgent, Inc.
                               51 Moulton St.
                               Cambridge, MA 02138 USA
                               (617) 245-0000
1.5. In Case of Emergency  • For medical emergencies, contact your local emergency center.
                               • For transportation emergencies, contact your local transportation authorities.
                               • For other non-medical or non-environmental emergencies please call (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday.

2. HAZARDS IDENTIFICATION
2.1. Classification        Not a hazardous substance or mixture.
2.2. Signal Word           Not applicable.
2.3. Symbol                Not applicable.
2.4. Hazard Statement(s)   Not applicable.
2.5. Precautionary Statement(s)  Not applicable.
2.6. Hazards not otherwise classified (HNOC) or not covered by GHS  None.

3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1. Chemical Name         B18R Recombinant Protein, Carrier-Free
3.2. Synonyms              Vaccinia Virus-Encoded Neutralizing Type I Interferon Receptor
                               Type I IFN inhibitor
3.3. Chemical Formula      Not applicable.
3.4. Molecular Weight      48 kDa (reduced), 46 kDa (non-reduced)
3.5. CAS Number            Not applicable.

4. FIRST AID MEASURES
4.1. First Aid Instructions Move out of exposure area. Consult a physician.
                               • General Advice
                               • Eyes Check for and remove contact lenses immediately and flush thoroughly with water for at least 15 minutes. Call a physician.
                               • Skin Immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Wash off with soap.
                               • Ingestion If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.
                               • Inhalation If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.
4.2. Most Important
Symptoms/effects, acute and immediate
4.3. Indications of immediate medical attention and special treatment needed

5. FIRE FIGHTING MEASURES
5.1. Suitable extinguishing media.
5.2. Specific hazards arising from the chemical
5.3. Special protective equipment and precautions for fire-fighters

6. ACCIDENTAL RELEASE MEASURES
6.1. Personal precautions, protective equipment, and emergency procedures
6.2. Environmental Precautions
6.3. Methods and materials for containment and clean up

7. HANDLING AND STORAGE
7.1. Precautions for safe handling
7.2. Conditions for safe storage, including any incompatibilities

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. Control Parameters
8.2. Appropriate engineering controls
8.3. Protection measures and Personal Protective Equipment

• Puncture Wounds
  Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician.
  Described in section 2.

No data available.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

No data available.

Wear self contained breathing apparatus and full turnout gear for firefighting if necessary.

Use personal protective equipment (see section 8). Avoid direct contact with skin or eyes and prevent inhalation of mist or vapor. Ensure adequate ventilation.

Do not let product enter drain.

Keep in suitable, closed containers for disposal. Use absorbent, non-reactive material to contain liquid spill. Dispose of absorbent material used to clean spills in accordance with federal, state, and local environmental control regulations.

• Avoid inhalation, contact with eyes, skin, and clothing.
• Keep in well ventilated area
• For other precautions see section 2.5.

Store at -20°C to -80°C. Avoid repeated freeze thaw/cycles. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.
• Respiratory Protection  
Respiratory protection is not required. Where protection from nuisance exposure is desired use type OV/AG (US) or type ABEK (EU EN 14387) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

• Eye Protection  
Chemical safety goggles.

• Skin Protection  
Protective gloves and lab coat.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1. Appearance  
Frozen liquid.

9.2. Odor  
No data available.

9.3. Odor Threshold  
No data available.

9.4. pH  
No data available.

9.5. Melting point/freezing point  
No data available.

9.6. Initial boiling point and boiling range  
No data available.

9.7. Flash point  
No data available.

9.8. Evaporation rate  
No data available.

9.9. Flammability (solid, gas)  
No data available.

9.10. Upper/lower flammability or explosive limits  
No data available.

9.11. Vapor pressure  
No data available.

9.12. Vapor density  
No data available.

9.13. Relative density  
No data available.

No data available.

9.15. Partition coefficient: n-octanol/water  
No data available.

9.16. Auto-ignition temperature  
No data available.

9.17. Decomposition temperature  
No data available.

9.18. Viscosity  
No data available.

9.19. Explosive properties  
No data available.

9.20. Oxidizing properties  
No data available.

10. STABILITY/REACTIVITY

10.1. Reactivity  
No data available.

10.2. Chemical Stability  
This product is stable.

10.3. Possibility of hazardous reactions  
No data available.

10.4. Conditions to Avoid  
No data available.

10.5. Incompatible materials  
Strong oxidizing agents.

10.6. Hazardous decomposition products  
No data available.
11. TOXICOLOGICAL INFORMATION

11.1. Toxicological effects

No data available.

- Acute toxicity
- Skin corrosion/irritation
- Serious eye damage/eye irritation
- Respiratory or skin sensitization
- Germ cell mutagenicity
- Carcinogenicity

No data available.

- Reproductive Toxicity
- Specific target organ toxicity - single exposure
- Specific target organ toxicity - repeated exposure
- Aspiration hazard

No data available.

11.2. Symptoms related to the physical, chemical and toxicological characteristics

No data available.

11.3. Effects of Short-Term Exposure

No data available.

11.4. Effects of Long-Term Exposure

No data available.

11.5. Numerical measures of toxicity

No data available.

11.6. Other Information

Bioactivity:
ND50 – 800 pg/mL
Specific Activity > 1.3x10e6 units/mg.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.
12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
No data available.

13. DISPOSAL CONSIDERATIONS
13.1. Disposal Method
Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

13.2. Personal safety
Refer to section 8.

14. TRANSPORT INFORMATION
This product is considered non-hazardous for transport.

15. REGULATORY INFORMATION
U.S. Federal Regulations
- SARA 313 components
  This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.
- SARA 302 components
  Does not contain any components subject to reporting.
- SARA 311/312 Hazards
  Not hazardous.
- Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61)
  Does not contain any components subject to reporting.

U.S. State Regulations
- California Proposition 65
  Does not contain any components subject to reporting.
- Massachusetts Right To Know Components
  Does not contain any components subject to reporting.
- Pennsylvania Right To Know Components
  Disodium hydrogen phosphate, CAS No. 7558-79-4, Revision Date: 2007-03-01
- New Jersey Right To Know Components
  Disodium hydrogen phosphate, CAS No. 7558-79-4, Revision Date: 2007-03-01

WHMIS Hazard Class
Not controlled under WHMIS (Canada).

16. OTHER INFORMATION
Notice
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Stemgent, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See Stemgent, Inc. website for terms and conditions of sale.

Preparation Date
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Prepared by
Quality Control