Section 5 - Fire Fighting Measures

Autoignition Temp: N/A
Extinguishing Media
   Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting
   Protective Equipment
   Water self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
   Specific Hazard(s)
   Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Methods for Cleaning Up
   Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
   User Exposure
   Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage
   Suitable
   Keep tightly closed. Store at 2-8°C

Section 8 - Exposure Controls / PPE

Engineering Controls
   Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment
   Respiratory
   Wear dust mask.
   Hand
   Protective gloves.
   Eye
   Chemical safety goggles.

General Hygiene Measures
   Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance
   Physical State
   Solid
Molecular Weight: N/A
pH: N/A
BP/VP Range: N/A

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 2
SIGMA-ALDRICH

Material Safety Data Sheet
Date Printed: 06/30/2004
Date Updated: 04/05/2004
Version 1.90

Section 1 - Product and Company Information

Product Name
   Albumin bovine serum. Fraction V, 290%
Product Number
   A9647
Brand
   Sigma Chemical
Company
   Sigma-Aldrich
Street Address
   3650 Spruce Street
City, State, Zip, Country
   SAINT LOUIS, MO 63103 US
Technical Phone:
   314 771 5795
Fax
   800 323 5032
Emergency Phone:
   414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
<th>EC no</th>
<th>Annex I Index Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERUM ALBUMIN</td>
<td>9046-46-8</td>
<td>No</td>
<td>232-036-2</td>
<td></td>
</tr>
</tbody>
</table>

Formula
   Synonyms

Section 3 - Hazards Identification

HMIS Rating
   Health: 0
   Flammability: 0
   Reactivity: 0
NPF Rating
   Health: 0
   Flammability: 0
   Reactivity: 0
For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
   If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation Exposure
   If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Dermal Exposure
   In case of contact, immediately wash skin with soap and copious amounts of water.
Eye Exposure
   In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Section 10 - Stability and Reactivity

Stability
- Stable
- Stable
- Stable
- May be harmful.

Materials to Avoid
- Strong oxidizing agents.
- May cause skin irritation.
- May cause eye irritation.
- May cause respiratory irritation.
- May be harmful if inhaled.
- May be harmful if swallowed.

Section 11 - Toxicological Information

Route of Exposure
- Skin Contact
- May cause skin irritation.
- May cause eye irritation.
- Ingestion
- Inhalation
- May cause respiratory irritation.
- May be harmful if inhaled.
- May be harmful if swallowed.

Skin Absorption
- May be harmful if absorbed through skin.

Eye Contact
- May cause eye irritation.

Inhalation
- May be harmful if inhaled.

Ingestion
- May be harmful if swallowed.

Disposal
- Do not contaminate, natural waterways, ground water supplies or the soil.
- Follow all Federal, State, and local regulations.

Hazardous Decomposition Products
- Carbon monoxide, carbon dioxide.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
- Contact a licensed professional waste disposal service to dispose of this material.
- Destroy or mix this material with a combustible solvent and burn in a chemical incinerator equipped with an atomizer and scrubber.
- Dispose of in accordance with local regulations.

Section 14 - Transport Information

DOT
- Proper Shipping Name: None.
- Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
- Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

United States Regulatory Information
- SARA Listed: No.
- Canada Regulatory Information
- WHMIS Classification
- This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DBL: Yes
- NDSL: No

Section 16 - Other Information

Disclaimer
- For R&D use only. Not for drug, household or other uses.

Warranty
- 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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.