

Material Safety Data Sheet

Date Printed: 09/07/2006 Date Updated: 02/03/2006 Version 1.30

Section 1 - Product and Company Information

Product Name

Protein G Agarose, Fast Flow from Streptococcus sp.

Product Number

Brand

Sigma Chemical

Company Street Address Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country Technical Phone:

SAINT LOUIS, MO 63103 US

800-325-5832 800-325-5052 **Emergency Phone:**

314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

Ingredient Name

CAS#

SARA 313 No

Annex I Index EC no Number

PROTEIN G -AGAROSE, FAST FLOW

None CAS#

Percent

SARA 313

The hazards identified with this product are those

associated with the following component(s):

ETHYL ALCOHOL, NON-DENATURED, 200 PROOF

64-17-5 20 000 %

Formula Synonyms

Section 3 - Hazards Identification

Emergency Overview

Irritant.

Irritating to eyes, respiratory system and skin.

Target organ(s): Liver. Nerves.

HMIS Rating

Flammability: 2 Health: 2*

Reactivity: 0

NFPA Rating

Health: 2

Reactivity: 0

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Flammability: 2

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 not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

Eve 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 5 - Fire Fighting Measures

Autolgnition Temp:

Extinguishing Media

Suitable

Water spray, Carbon dioxide, dry chemical powder, or appropriate foam,

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Combustible liquid. Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves,

Methods for Cleaning Up

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash splil site after material pickup is complete.

Section 7 - Handling and Storage

Handling

Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Storage

Keep tightly closed. Keep away from heat and open flame, Store at 2-8°C

Section 8 - Exposure Controls / PPE

Engineering Controls

Use only in a chemical fume hood. Safety shower and eye bath,

Personal Protective Equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand

Compatible chemical-resistant gloves.

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Chemical safety goggles.

Skin-Specific

Chemical resistant apron.

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

N/A

Appearance

Physical State

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Molecular Weight:

рΗ

BP/BP Range MP/MP Range

Freezing Point Vapor Pressure Vapor Density

Saturated Vapor Conc. SG/Density **Bulk Density**

Odor Threshold Volatile% VOC Content Water Content

Solvent Content **Evaporation Rate** Viscosity Partition Coefficient Decomposition Temp.

Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A

Flammability N/A Autoignition Temp N/A Solubility N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable

Stable. Conditions to Avoid

Moisture

Materials to Avoid

Acids, Acid chlorides, Acid anhydrides, Alkali metals, Ammonia, Oxidizing agents, Peroxides.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide,

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Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

Inhalation

May be harmful if inhaled, Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed.

Target Organ(s) or System(s)

Nerves. Liver.

Signs and Symptoms of Exposure

Can cause CNS depression. Exposure can cause: Nausea, headache, and vomiting. Narcotic effect. Damage to the heart. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

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

Section 15 - Regulatory Information

US Classification and Label Text

Indication of Danger

Irritant

Risk Statements

Irritating to eyes, respiratory system and skin.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. **US Statements**

Target organ(s): Liver, Nerves.

United States Regulatory Information SARA Listed: No

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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.

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DSL: No

NDSL: No

Section 16 - Other Information

Disclaimer

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

Warrant

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 sllp for additional terms and conditions of sale. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper coples for internal use only.

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