# **Material Safety Data Sheet**

**United States** English

Section 1. Chemical product and company identification

**Product name** Protein A Sepharose™ CL-4B, 1.5 g

Catalogue Number 17-0780-01

**C**ross-linked Agarose Synonym

Material uses Industrial applications: Analytical chemistry. Liquid chromatography. Research.

Product type Validation date 29 June 2011 29 June 2011 Print date GE Healthcare UK Ltd Supplier

Amersham Place

Little Chalfont Buckinghamshire HP7 9NA

England

+44 0870 606 1921

US ChemTrec (US) 1-800-424-9300 In case of emergency Canada ChemTrec (US) 1-703-527-3887

Hazards identification 2.

Physical state Solid, [Solid beads,] Odorless. Odor

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR OSHA/HCS status

> 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

**Emergency overview** 

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED

INSTRUCTIONS FOR USE ARE FOLLOWED.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

No known significant effects or critical hazards. Eyes No known significant effects or critical hazards. Skin Inhalation No known significant effects or critical hazards. No known significant effects or critical hazards. Ingestion

Potential chronic health effects

Chronic effects No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects

Inhalation No specific data. No specific data. Ingestion No specific data. Skin No specific data Eyes None known Medical conditions aggravated by

over-exposure

See toxicological information (Section 11)



Article Number

Page: 1/5

Validation date 29 June 2011

Version 4.02

#### 3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### Section 4. First aid measures

heck for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 Eye contact

minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur. Skin contact K case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get

medical attention if symptoms occur.

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, Inhalation

provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt

or waistband. Get medical attention if symptoms occur.

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never Ingestion

give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

### Section 5. Fire-fighting measures

Flammability of the product No specific fire or explosion hazard.

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No Special exposure hazards

action shall be taken involving any personal risk or without suitable training.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding Personal precautions areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled

material. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Methods for cleaning up Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste

Small spill Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste

container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

Fut on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be Handling

prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment

before entering eating areas.

Store between the following temperatures: 4 to 8°C (39.2 to 46.4°F). Store in accordance with local Storage regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated

area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid

environmental contamination.

### Section 8. Exposure controls/personal protection

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

f this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** 

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.



Article Number

Validation date 29 June 2011



Page: 2/5

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

**Respiratory**Respirator is not needed under normal and intended conditions of product use.

**Hands** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary.

**Eyes**Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Personal protective equipment for the body should be selected based on the task being performed and the

reasonal protective equipment of the body should be selected bused on the task being performed

risks involved and should be approved by a specialist before handling this product.

**Environmental exposure** 

controls

Skin

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Section 9. Physical and chemical properties

**Physical state** Solid. [Solid beads.]

**Flash point** [Product does not sustain combustion.]

ColorWhite.OdorOdorless

Volatility 0% (w/w)

**VOC** 0 % (w/w) [ISO 11890-1]

**Solubility** Insoluble in the following materials: cold water and hot water.

## Section 10. Stability and reactivity

StabilityThe product is stable.Materials to avoidNo specific data.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions of reactivity

Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts,

oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and

moisture.

Not considered to be a product presenting a risk of explosion.

#### Section 11. Toxicological information

Sensitizer

Conclusion/Summary Not available.

### Section 12. Ecological information

**Environmental effects** No known significant effects or critical hazards.

**Aquatic ecotoxicity** 

Conclusion/Summary Not available.

**Biodegradability** 

Conclusion/Summary Not available.

Other adverse effects No known significant effects or critical hazards.

### Section 13. Disposal considerations

Waste disposal The generation of waste should be avoided or minimized wherever possible. Significant quantities of

waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers.

RCRA classification Not classified

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.



Article Number

Page: 3/5

17078001



### Section 14. Transport information

### International transport regulations

Not classified.

### Section 15. Regulatory information

**HCS Classification** 

U.S. Federal regulations TSCA 8(a) IUR Exempt/Partial exemption: This material is listed or exempted.

United States inventory (TSCA 8b): This material is listed or exempted.

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.

 $\textbf{SARA 311/312 MSDS distribution - chemical inventory - hazard identification:} \ \textbf{No products were found.}$ 

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Not listed

Clean Air Act Section 602 Class I Not listed

**Substances** 

**Substances** 

Clean Air Act Section 602 Class II Not listed

**DEA List I Chemicals (Precursor** Chemicals)

Not listed

**DEA List II Chemicals (Essential** Not listed

Chemicals)

State regulations

Massachusetts This material is not listed. This material is not listed. **New York** This material is not listed. **New Jersev** This material is not listed. Pennsylvania

California Prop. 65

United States inventory (TSCA 8b) This material is listed or exempted.

International regulations

Australia inventory (AICS): This material is listed or exempted. International lists

China inventory (IECSC): This material is listed or exempted. Japan inventory: This material is listed or exempted. Korea inventory: This material is listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.

Philippines inventory (PICCS): This material is listed or exempted.

**Chemical Weapons Convention** List Schedule I Chemicals

Not listed

**Chemical Weapons Convention** 

Not listed

List Schedule II Chemicals

Not listed

List Schedule III Chemicals

**Chemical Weapons Convention** 



Article Number



### Section 16. Other information

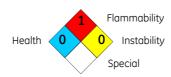
Label requirements

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED

INSTRUCTIONS FOR USE ARE FOLLOWED.

The customer is responsible for determining the PPE code for this material.

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





Indicates information that has changed from previously issued version.

**History** 

29 June 2011 02 May 2011 Date of previous issue Date of printing Date of issue 29 June 2011 4.02 Version

#### Notice to reader

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 caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Article Number 17078001

