Material Safety Data Sheet

According to Regulations:
(EC) No. 1907/2006
OSHA 29 CFR 1910.1200

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: nProtein A
Description: Frozen liquid
Article number: 30-6001 (GE Healthcare)
11-1001 (Repligen Sweden AB)
Use of the substance/preparation: The subject material is a protein that is used for purification of antibodies.
Company/Undertaking Identification: Repligen Sweden AB
S:t Lars väg 47
P.O. Box 965
SE-220 09 Lund
Sweden
+ 46 (0)46 280 17 00
Emergency Telephone Number: Europe: + 46 (0)707 54 98 23
USA: + 1-800-622-2259

2. HAZARDS IDENTIFICATION

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 or OSHA 29 CFR 1910.1200.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical identity</th>
<th>CAS number</th>
<th>% (w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein A</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>NaCl</td>
<td>767-14-5</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 90</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Inhalation**
If inhaled, remove person from contaminated area. Encourage patient to blow nose to ensure clear breathing passage. If irritation or discomfort persists seek medical attention.

**Skin contact**
In case of contact with skin, wash the affected area with soap and water. Should irritation occur, contact a physician.

**Eye contact**
In case of contact with eyes, flush thoroughly with water and contact a physician.

**Ingestion**
In case of accidental swallowing, rinse the mouth with fresh water provided the person is conscious. Contact a physician.

5. FIRE-FIGHTING MEASURES

**Protection against Fire and Explosions**
No special requirements

**Suitable extinguishing media**
Water spray, dry chemical powder or appropriate foam. Wear self-contained breathing apparatus and protective clothing. Avoid contact with skin or eyes.

**Unsuitable Extinguishing Media**
None

**Hazardous combustion products**
None

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
For personal protection see section 8

**Methods for cleaning up**
Place in a closed container and hold for waste disposal. Wash area thoroughly after clean-up is complete.

7. HANDLING AND STORAGE

**Handling**
Avoid generating and breathing aerosols. Limit all unnecessary personal contact. Standard industry practices recommended.

**Storage**
Store at -18 °C or below

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye protection**
Safety glasses or goggles required.

**Hand Protection**
Wear general protective gloves, e.g. light weight rubber gloves

**General hygiene considerations**
Handle in accordance with good industrial hygiene and safety practices

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
Frozen liquid

**Solubility**
Soluble in water

**pH**
Neutral
10. STABILITY AND REACTIVITY

Reactivity
Chemical stability
Conditions to avoid
Incompatible materials
Hazardous Decomposition Products
No data available
This material is stable under normal conditions of use
No known
No known
No known

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Irritation
Sensitization
Carcinogenicity
Mutagenicity
Teratogenicity
No known significant effect
May be irritating to skin and eye
No known significant effect
No known significant effect
No known significant effect
No known significant effect

12. ECOLOGICAL INFORMATION

Ecotoxicity
No data available
Do not discharge into sewer or waterways

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
All waste must be handled in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Transport Regulations
The preparation is not subject to current regulations for transport of hazardous materials according to IATA, IMDG, DOT or ADR/RID/ADN.

15. REGULATORY INFORMATION

The preparation is not classified as hazardous according to OSHA/SARA/CWA/CAA.
The preparation is not classified as hazardous according to (EC) No. 1272/2008

16. OTHER INFORMATION

Disclaimer
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification.