

The Safety Data Sheet (SDS) provided is compliant to the current European legislation following the requirements of REACH Regulation 1907/2006 and CLP Regulation 1272/2008.

## 1. DESCRIPTION

Product Name: Human Serum AB, converted  
Product code: S-115  
Description: Human AB serum filtered to 0.2 micron

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008  
This substance is not classified as dangerous according to Directive 67/548/EEC.

Although classed as non-hazardous contains animal source material. Handle as though capable of transmitting infectious agents. This material has been viral tested and should be handled at Biohazard Safety Level 2.

### 2.2 Label elements

Not applicable.

### 2.3 Other hazards

None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Component Name</b>	Human Serum
<b>CAS-No.</b>	None
<b>Weight %</b>	>99%

The product contains no substances which at their given concentration, are considered to be hazardous to health. Although the serum used to manufacture this product has been tested and shown to be negative for certain infectious agents, no test is 100% accurate. All materials derived from blood should be handled as if capable of transmitting infection.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Call medical assistance immediately.

**If irritation occurs:** Consult a health care provider.

**4.2 Most important symptoms and effects, both acute and delayed.**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3 Indication of any immediate medical attention and special treatment needed.**

No information available.

**5. FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

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

**5.2 Special hazards arising from the substance or mixture.**

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

The product itself does not burn.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapours, mist or gas.

**6.2 Environmental precautions**

Contain the spill immediately and decontaminate using a string solution of sodium hypochlorite (bleach). Volume of bleach should be not less than 10% of the spill volume. Allow at least 10 minutes for neutralisation. Absorb spill using suitable absorbent materials. Dispose as clinical waste.

**6.3 Methods and materials for contamination and cleaning up**

Dispose as clinical waste.

**6.4 Reference to other sections**

For disposal see section 13.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: -20 °C.

**7.3 Specific end uses**

No information available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls**

Safety shower and eye bath. Mechanical exhaust required. No respiratory protection will be needed under normal Good Laboratory Practices operating conditions. Use supplied-air respiratory equipment as required by local regulation. Compatible chemical resistant gloves should be the minimum hand protection. Chemical safety goggles/glasses should be the minimum eye protection. Wash hands and other exposed areas thoroughly with mild soap and water before eating, drinking and when leaving the laboratory. Wash contaminated clothing before use.

**8.2.1 Appropriate engineering controls**

General industrial hygiene practice.

**8.2.2 Personal protective equipment**

**a) Eye/face protection:**

## **Human Serum AB**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**b) Skin protection:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**c) Body protection:**

Impervious clothing; the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**d) Respiratory protection:**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Physical state is clear to straw coloured liquid

## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

No information available.

### **10.2 Chemical stability**

No information available.

### **10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

No information available.

**10.5 Incompatible materials**

Strong oxidising agents.

**10.6 Hazardous decomposition products**

No information available.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**11.1.1 Acute toxicity**

No information available.

**11.1.2 Skin corrosion/irritation**

No information available.

**11.1.2 Serious eye damage/eye irritation**

No information available.

**11.1.4 Respiratory or skin sensitisation**

No information available.

**11.1.5 Germ cell mutagenicity**

No information available.

**11.1.6 Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**11.1.7 Reproductive toxicity**

No information available.

**11.1.8 Specific target organ toxicity – single exposure**

No information available.

**11.1.9 Specific target organ toxicity – repeated exposure**

No information available.

**11.1.10 Aspiration hazard**

No information available.

**11.1.11 Potential health effects**

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

**11.1.12 Signs and symptoms of exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**11.1.13 Additional Information**

No information available.

**12 ECOLOGICAL INFORMATION**

**12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects**

No information available.

### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Observe all local and government environmental regulations

**a) Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**b) Contaminated packaging**

Dispose of as unused product.

### 14 TRANSPORT INFORMATION

#### IATA AIR TRANSPORTATION

Proper shipping name: Biological substance, Category B

Hazard Class: Class 6.2

#### 14.1 UN number

UN3373

#### 14.2 UN proper shipping name

Biological substance, Category B

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

#### 14.3 Transport hazard class(es)

Hazard Class: Class 6.2

#### 14.4 Packaging group

No information available.

#### 14.5 Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

#### 14.6 Special precautions for user

No information available.

**14.7 Harmonised tariff code:**

3002 1098

**15 REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

OSHA Process Safety Standard: This material is not known to be hazardous under the OSHA Highly Hazardous Process Safety Standard 29CFR 1910.119

**15.2 Chemical Safety Assessment**

No information available.

**16 OTHER INFORMATION**

**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.

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