

SAFETY DATA SHEET**SECTION 1. IDENTIFICATION****1.1. Product Identifier(s)**

Name:	Human Serum Albumin
Description:	Human Serum Albumin
Code:	Various
Characteristics:	Human Serum Albumin

1.2. Relevant identified uses of the substance or mixture and uses advised against

For research or manufacturing use only. For non-injectable products only and not for internal or external use in humans or animals.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Importer:	Manufacturer
Company name:	Monobind Inc.
Address:	100 North Pointe Drive, Lake Forest, California 92630, USA
Telephone number:	+1.949.951.2665
Fax number:	+1.949.951.3539
Email:	info@monobind.com
FDA Est. Reg number:	2020726
SRN number:	US-MF-000021611

1.4. Emergency telephone number

+1.949.951.2665 (Hours: 8 am-5 pm PST, Monday-Friday)

SECTION 2. HAZARD(S) IDENTIFICATION**2.1. Classification of the substance or mixture**

None

2.2. Label elements

None

2.3. Other hazards

Should always be used with caution as if capable of transmitting infectious diseases.
Should be handled at Biosafety Level 2.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances and/or Mixtures**

All concentrations of potentially hazardous substances or mixtures are below the specific concentration limits and M-factors for hazardous identification.

SECTION 4. FIRST-AID MEASURES**4.1. Description of first aid measures**

General instructions:	Immediately rinse with soap and plenty of water. Use personal protective working aids.
If inhaled:	Transport the affected person into the open air. If there are respiratory complaints, oxygen must be administered. If irritation persists, seek medical advice.
In case of skin contact:	Wash contacted area with soap and water. Remove contaminated clothing. If irritation occurs, seek medical advice.
In case of contact with eyes:	Rinse with a stream of water for at least 15 minutes. Thorough rinsing must be ensured by opening the eyelids. If irritation occurs, seek medical advice.
If ingested:	Do NOT induce vomiting. If conscious, rinse the mouth and administer a large amount of water to dilute the substance. In the case of

unconsciousness, never administer anything orally. If irritation occurs, seek medical advice.

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

No data available

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

No data available

SECTION 5. FIRE-FIGHTING MEASURES**5.1. Extinguishing media**

Carbon dioxide, dry powder, foam, water

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

Wear appropriate personal protective equipment and clothing. Wear self-contained breathing apparatus, if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes. Wear suitable personal protective clothing.

6.2. Environmental precautions

Avoid penetration into sewerage systems, surface and ground water. Avoid soil pollution.

6.3. Methods and material for containment and cleaning up

Soak up liquid with absorbent disposable paper. Wash affected area with water and detergent. In addition, use precautions for blood products at biosafety level 2 as described in health safety code for laboratory.

6.4. Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for appropriate disposal methods.

SECTION 7. HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid spills. Avoid contact with skin, eyes and clothing. Use suitable protective means to work with the substance. Use in a well-ventilated area. Follow good manufacturing practices when using product. Do not drink, smoke, or eat in work areas.

7.2. Conditions for safe storage, including any incompatibilities

Store material at 2-8 °C for a short period of time. For longer stability, store at -20 °C. Use stabilizers suitable for your application.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION**8.1. Control parameters**

No substances with occupational exposure limits.

8.2. Exposure controls

8.2.1. Eye/face protection: Safety glasses or goggles with side shields recommended

8.2.2. Skin protection: Compatible protective gloves recommended. Wash hands after properly removing and disposing of gloves.

Other skin protection: Laboratory coats are recommended.

8.2.3. Respiratory protection: No respiratory protection is required. Use product in rooms enabling good ventilation. If local exhaustion is necessary, general (forced) exhaustion is recommended.

8.2.4. Thermal hazards: None

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

9.1.1. Appearance:

Physical state (at 20 °C): Liquid

Colour:	Straw to pale amber
9.1.2. Odour:	Odorless
9.1.3. Odour threshold:	Not applicable
9.1.4. pH value:	6.3 to 7.5
9.1.5. Melting point/freezing point:	Not determined
9.1.6. Initial boiling point/ boiling range:	100-110 °C
9.1.7. Flash point:	Not applicable
9.1.8. Evaporation rate:	Not determined
9.1.9. Flammability (solid, gas):	Not flammable
9.1.10. Upper/lower flammability or explosive limits:	Not determined
9.1.11. Vapour pressure:	Not determined
9.1.12. Vapour density:	Not determined
9.1.13. Relative density:	Not determined
9.1.14. Solubility:	Water soluble
9.1.15. Partition coefficient: n-octanol/water:	Not determined
9.1.16. Auto-ignition temperature:	Not applicable
9.1.17. Decomposition temperature:	Not determined
9.1.18. Viscosity:	Not determined
9.1.19. Explosive properties:	Not determined
9.1.20. Oxidising properties:	Not determined

9.2. Other information

None

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

No known reactivity hazards associated with product

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

No hazardous polymerization

10.4. Conditions to avoid

Exposure to heat

10.5. Incompatible materials

Strong acid or strong alkaline substances

10.6. Hazardous decomposition products

Not determined

SECTION 11. TOXICOLOGICAL INFORMATION:

11.1. Information on toxicological effects

11.1.1. Acute toxicity:	Not determined
11.1.2. Skin corrosion/irritation:	Not determined
11.1.3. Serious eye damage/irritation:	Not determined
11.1.4. Respiratory or skin sensitisation:	Not determined
11.1.5. Germ cell mutagenicity:	Not determined
11.1.6. Carcinogenicity:	No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed human carcinogen by NTP (National Toxicology Program), IARC (International Agency for Research on Cancer), or OSHA (Occupational Safety & Health Administration)
11.1.7. Reproductive toxicity:	Not determined
11.1.8. STOT-single exposure:	Not determined
11.1.9. STOT-repeated exposure:	Not determined
11.1.10. Aspiration hazard:	Not determined
11.1.11. Information on likely routes of exposure:	
If ingested:	No known health effects
If inhaled:	No known health effects
If contact with skin:	No known health effects

- If contact with eyes: No known health effects
11.1.12. Symptoms related to the physical, chemical, and toxicological characteristics: None after short or long-term exposure

SECTION 12. ECOLOGICAL INFORMATION

- 12.1. Toxicity**
Not determined.
- 12.2. Persistence and degradability**
Not determined
- 12.3. Bioaccumulative potential**
Not determined
- 12.4. Mobility in soil**
Not determined
- 12.5. Results of PBT and vPvB assessment**
Not determined
- 12.6. Endocrine disrupting properties**
Not determined
- 12.7. Other adverse effects**
Not determined

SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods**
All waste disposals must be carried out in accordance with federal, state, and local legislation and administrative regulations. A licensed professional waste disposal service should be utilized to dispose of material and packaging.

SECTION 14. TRANSPORT INFORMATION

- 14.1. UN number**
Not available
- 14.2. UN proper shipping name**
Not available
- 14.3. Transport hazard class(es)**
Not available
- 14.4. Packing group**
Not available
- 14.5. Environmental hazards**
Overland transport (ADR/RID): None
Water transport (ADN/IMDG): None
Air transport (ICAO/IATA): None
- 14.6. Special precautions for user**
None
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable

SECTION 15. REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
SARA Reporting Requirements: None
TSCA: All components in product preparations are listed on the US Toxic Substances Control Act inventory of chemicals or are exempt from listing.
This safety data sheet has been prepared to comply with the requirements of Annex II, European Community Regulation No. 1907/2006 REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) and OSHA (Occupational Safety & Health Administration) 1910.1200, Appendix D.
- 15.2. Chemical safety assessment**
None

SECTION 16. OTHER INFORMATION

Revision 3 (2024-DEC-18): updated relevant use and restrictions of use (section 1.2)

Revision 2 (2019-SEP-17): updated to include pH value details

Revision 1 (2015-MAY-05): updated to comply with requirements of Annex II, European Community Regulation No. 1907/2006 (REACH) and OSHA 1910.1200, Appendix D

Revision 0 (2003-JUN-23): Initial creation

The material safety data sheet contains data necessary to ensure safety and health and environmental protection in working with chemical substances. This product is a chemical substance and can be solely used by persons with chemical education at their own risk. Human Serum Albumin Lyophilized – Low Endotoxin is formulated for biomedical research and further manufacturing processes. The manufacturer has no responsibility for damage caused by unsuitable use and by disrespecting the enclosed working instructions. The above-stated information cannot be considered as complete and must be understood to be only a methodical instruction.

DOCUMENT HISTORY

PREPARED BY:  DEPT: Records Administration

VERIFIED BY:  DEPT: QA

APPROVED BY: _____ DEPT: Administration

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