

Safety data sheet

According to 1907/2006/EC, Article 31

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Version 2



1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

– Trade name: ***BSA (lyophilized)***

– Article number: EN17-010, EN17-100

1.2 Relevant identified uses of the substance or mixture and uses advised against: *no data available*

– Application of the substance / the preparation: *Biochemistry, molecular biology, cell culture*

1.3 Details of the supplier of the safety data sheet

– Manufacturer/supplier:

BLIRT S.A.

Trzy Lipy 3/1.38

80-172 Gdansk

Poland

orders@blirt.eu

Tel. +48 58 739 61 50

1.4 Emergency telephone number:

+48 58 739 61 50 (Inside normal business hours)

112

2. Hazards identification

2.1 Classification of the substance or mixture

– Classification according to Regulation (EC) No 1272/2008:



GHS07

Acute Tox. 4 H302 Harmful if swallowed

2.2 Label elements

– Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

– Hazard pictograms:



– Signal word: *Warning*

– **Hazard-determining components of labeling:** *Bovine serum albumin*

– **Hazard statements:**

H302 Harmful if swallowed

– **Precautionary statement(s):**

Prevention:

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response:

P301+P312 P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

Rinse mouth.

2.3 Other hazards

Not applicable.

3. Composition/information on ingredients

3.1 Chemical characterization: *Substance*

– **CAS No.:** *9048-46-8 (Bovine serum albumin)*

– **EC number:** *232-936-2*

– **Other information:** *Not significant*

4. First aid measures

4.1 Description of first aid measures

– **General information:** *Consult a physician. Show this safety data sheet to the doctor in attendance.*

– **After inhalation:** *Supply fresh air. If not breathing, give artificial respiration. Consult a physician.*

– **After skin contact:** *Wash with soap and plenty of water. Remove affected clothing. If skin irritation continues, consult a doctor.*

– **After eye contact:** *Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

– **After swallowing:** *Rinse out mouth. If symptoms persist consult doctor.*

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

Prolonged or repeated exposure may cause:, Headache, Nausea, Vomitting.

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

No further relevant information available.

5. Firefighting measures

5.1 Extinguishing media

– Suitable extinguishing agents: *water, CO₂, alcohol-resistant foam, powder.*

5.2 Special hazards arising from the substance or mixture

– Ambient fire may liberate hazardous vapours, carbon oxides

5.3 Advise for firefighters

– Protective equipment: *Wear self-contained respiratory protective device.*

Additional information

Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: *Avoid formation of dust. Do not inhale dust. Ensure adequate ventilation.*

6.2 Environmental precautions: *Prevent entry to sewers/public waters.*

6.3 Methods and material for containment and cleaning up: *Pick up mechanically. Avoid generation of dusts. Clean up affected area.*

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal equipment.

See section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling: *Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation at work place.*

7.2 Conditions for safe storage, including any incompatibilities

– Requirements to be met by storerooms and receptacles: *store in cool place. Keep container closed in a dry and well-ventilated place. Containers opened must be carefully resealed and kept upright to prevent leakage.*

– Information about storage in one common storage facility: *Not required.*

– Further information about storage conditions: *Keep container sealed.*

– Recommended storage temperature: **2-8°C**

– Storage class: *10-13*

7.3 Specific end use(s): *No further relevant information available.*

8. Exposure controls/personal protection

8.1 Control parameters

– Ingredients with limit values that require monitoring at the workplace: *Not required.*

– **Additional information:** *The lists valid during the making were used as basis.*

8.2 Exposure controls

– **Personal protective equipment** – *avoid all unnecessary exposure*

• **General protective and hygienic measures:** *Change contaminated clothing.*

• **Respiratory protection:** *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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).*

• **Protection of hands:** *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.*

• **Eye protection:** *Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).*

• **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.*

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

– **Appearance:**

Form: *Powder*

Color: *Colourless*

– **pH-value:** *Not determined*

– **Odour:** *Not determined*

– **Change in condition:**

• **Melting point/ melting range:** *undetermined*

• **Boiling point/ boiling range:** *undetermined*

– **Flash point:** *not applicable*

- **Flammability (solid, gaseous):** *not applicable*
- **Danger of explosion:** *Product does not present an explosion hazard.*
- **Density:** *Not determined.*
- **Solubility in/ Miscibility with:**
 - **Water:** *Not miscible or difficult to mix.*
- **Other information:** *No further relevant information available.*

10. Stability and reactivity

- 10.1 **Reactivity:** *No data available.*
- 10.2 **Chemical stability:** *Stable under recommended storage conditions.*
 - **Thermal decomposition/conditions to be avoided:** *No decomposition if used according to specifications.*
- 10.3 **Possibility of hazardous reaction:** *No dangerous reactions known.*
- 10.4 **Conditions to avoid:** *No further relevant information available.*
- 10.5 **Incompatible materials:** *Strong bases, Strong oxidizing agents.*
- 10.6 **Hazardous decomposition product:** *No data available.*

11. Toxicological information

- 11.1 **Information on toxicological effects**
 - **Primary irritant effect:**
 - **On the skin:** *No data available.*
 - **On the eye:** *No data available.*
 - **Sensitization:** *No sensitizing effects known.*

12. Ecological information

- 12.1 **Toxicity:** *No data available.*
- 12.2 **Persistence and degradability:** *No further relevant information available.*
- 12.3 **Bioaccumulative potential:** *No further relevant information available.*
- 12.4 **Mobility in soil:** *No further relevant information available.*
- 12.5 **Results of PBT and vPvB:** *Not applicable.*
- 12.6 **Other adverse effects:** *No further relevant information available.*

13. Disposal considerations

13.1 Waste treatment methods

- **Recommendation:** *Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packaging (Recommendation):** *Disposal must be made according to official regulations.*
- **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

14. Transport information

14.1 UN-Number:

- ADR, ADN, IMDG, IATA: *not dangerous goods/not applicable*

14.2 UN proper shipping name:

- ADR, ADN, IMDG, IATA: *not dangerous goods/not applicable*

14.3 Transport hazard class(es):

- ADR, ADN, IMDG, IATA
- **Clasa:** *not dangerous goods/not applicable*

14.4 Packing group:

- ADR, IMDG, IATA: *not dangerous goods/not applicable*

14.5 Environmental hazards:

- **Marine pollutant:** *No*

14.6 Special precautions for users: *not applicable*

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: *not applicable*

- **Transport/additional information:** *not dangerous according to the above specifications.*
- **UN „Model Regulation“:** *not dangerous goods/not applicable*

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: *not applicable*

15.2 Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.