



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

1.1 Product identifiers

Product number, name:

- **X-PRO-0001 – Streptavidin - 5.0 mg**
- **X-PRO-0002 – Protein-A - 5.0 mg**

Brand: BioThinx

CAS No.: Not available

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.



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

Identified uses: Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company: BioThinx GmbH & Co. KG
Carl-Zeiss-Str. 51
D-55129 Mainz
Phone: +49-6131-2132970
E-mail: service@biothinx.com

1.4 Emergency telephone number

Emergency Phone: +49-6131-2132970, only available during normal business hours (CET)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

2.2 Label elements and precautionary statements

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

Pictogram: None
Signal word: None
Hazard statement(s): No applicable hazard statements.
Precautionary statement(s): No applicable precautionary statements.

2.3 Other hazards

Other hazards not contributing to the classification: None under normal conditions.
This substance / mixture contains no components, at levels of 0.1% or higher, which are considered to be either persistent, bio accumulating and toxic (PBT) or very persistent and very bio accumulating (vPvB).

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

No unclassified hazards known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

This substance is a mixture.

3.2 Mixtures

Contains no hazardous ingredients at levels requiring disclosure according to Regulation (EC) No. 1272/2008.



4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General advice

In all cases of doubt or if symptoms persist, seek medical advice
(If possible, show safety data sheet). Wash contaminated clothing before re-use.
Never give anything to an unconscious person.

4.1.2 If inhaled

If breathed in, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if the respiratory tract is irritated.

4.1.3 In case of skin contact

Wash off with soap and plenty of water. Wash contaminated clothing before re-use.
Seek medical attention if skin is irritated.

4.1.4 In case of eye contact

Immediately flush eyes with plenty of water at least 15 minutes as a precaution.
Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical attention if eyes are irritated.

4.1.4 If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.
Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries:	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation:	May cause respiratory irritation.
Symptoms/injuries after skin contact:	May cause temporary skin irritation.
Symptoms/injuries after eye contact:	May cause temporary irritation.
Symptoms/injuries after ingestion:	May cause gastrointestinal irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No data available



5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Foam, dry powder, carbon dioxide, water spray, sand. Use extinguishing methods that appeal to the local conditions

5.2 Special hazards arising from the substance or mixture

Fire hazard: No data available.

Explosion hazard: No data available.

Reactivity: No dangerous reactions known under normal conditions of use. Fire decomposition products thermal generates: Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x), Sulphur oxides, other toxic fumes.

5.3 Advice for firefighters

Do not enter fire area without proper protective equipment, including respiratory protection.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions

Do not let product enter drains. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and place in a suitable closed container for disposal in accordance with the waste regulations (see Section 13).

6.4 Reference to other sections

For disposal see section 13.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Avoid elevated temperatures.
Storage temperature: Refrigerated or room temperature

7.3 Specific end use(s)

No additional data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional information available

8.2 Exposure controls / Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face 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).

Skin protection

Wear suitable protective clothing. Wear long sleeves. Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. 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.



Body Protection

Wear suitable protective clothing. Wear long sleeves. Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where excessive vapour, mist, or dust may result, and 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).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Physical state, appearance, colour:

X-PRO-0001 – Streptavidin - 5.0 mg	solid, clear film
X-PRO-0002 – Protein-A - 5.0 mg	solid, clear film

b) Odour: no data available

c) Odour threshold: no data available

d) PH: neutral

e) Melting point/freezing point: no data available

f) Initial boiling point and boiling range: 100 °C

g) Flash point: no data available

h) Evaporation rate: no data available

i) Flammability (solid, gas): no data available



j) Upper/lower flammability or explosive limits:	no data available
k) Vapour pressure:	no data available
l) Vapour density:	no data available
m) Relative density:	no data available
n) Water solubility:	complete
o) Partition coefficient n-octanol/water:	no data available
p) Auto ignition temperature:	no data available
q) Decomposition temperature:	no data available
r) Viscosity:	no data available
s) Explosive properties:	product is not explosive
t) Oxidizing properties:	product is no oxidizer

9.2 Other safety information

No additional information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Not known

10.4 Conditions to avoid

Non Known

10.5 Incompatible materials

Strong bases, strong acids, strong oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x), Sulphur oxides, other toxic fumes.



11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not classified

Skin corrosion/irritation

Not classified, pH: neutral

Serious eye damage/eye irritation

Not classified, pH: neutral

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 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.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

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



12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology - general: No data available

12.2

Persistence and degradability

No additional information available

12.3 Bio accumulative potential

No additional information available

12.4 Mobility in soil

No additional information available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Do not allow to enter waters, drains or soil.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose in a safe manner in accordance with local/national regulations.

Contaminated packaging

Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID, IMDG, IATA:

14.2 UN proper shipping name

ADR/RID: No dangerous goods

IMDG: No dangerous goods

IATA: No dangerous goods

14.3 Transport hazard classes

ADR/RID: -

IMDG: -

IATA: -



14.4 Packaging group

ADR/RID: -
IMDG: -
IATA: -

14.5 Environmental hazards

ADR/RID: no
IMDG Marine pollutant: no
IATA: no

14.6 Special precautions for user

No data available

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.

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Neither banned nor restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Neither banned nor restricted

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): This product does not contain substances of very high concern

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Neither banned nor restricted

Regulation (EC) No 850/2004 on persistent organic pollutants: Neither banned nor restricted

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.



16. OTHER INFORMATION

16.1 Disclaimer

This product is offered by BioThinx GmbH & Co. KG for laboratory R&D use only. Not for drug, household or other uses. Not for human use or consumption. 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. BioThinx GmbH & Co. KG shall not be held liable for any damage resulting from handling or from contact with the above product. We make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall BioThinx GmbH & Co. KG be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if BioThinx GmbH & Co. KG has been advised of the possibility of such damages. See www.biothinx.com and/or reverse side of invoice or packing slip for additional terms and conditions of sale.