

# Material Safety Data Sheet

MSDS No.: MSDS#EXBR041  
Product Name: Instant TBS-T Buffer

First Revision Date: 2024.06.12  
Last Revision Date: 2024.06.12 Version No.:1.0

## Section 1: Chemical Product & Company Identification

### Identification of the Substance or Mixture

**Product Code:** EXBR041  
**Product Name:** Instant TBS-T Buffer

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

#### Identified uses

For research use only. Not applicable for diagnostic procedures.

#### Uses advised

Not for consumer use.

### Identification of the Company/Undertaking

Exreprotein, LLC.  
2726 Summer Street NE  
Minneapolis, MN 55413 (800) 215-0202  
www.exreprotein.com

Emergency Telephone Number  
(800) 215-0202

## Section 2: Hazards Identification

### **Australian SDS Statement**

Not classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS).

### GHS Classification

#### Health hazards

Not hazardous

#### Physical hazards

Not hazardous

#### Environmental hazards

Not hazardous

### Label Elements

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**Signal word**

None

**Hazard pictograms**

None

**Hazard pictographs**

None

**Hazard statements**

Not applicable

**Precautionary statements****Prevention**

Not applicable

**Response**

Not applicable

**Storage**

Not applicable

**Disposal**

Not applicable

**Other Hazards**

Not applicable

## Section 3: Composition/Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health.  
We recommend handling all chemicals with caution.

## Section 4: First Aid Measures

### Description of first aid measures

<b>Skin contact</b>	<b>Rinse with plenty of water. Immediate medical attention is not required.</b>
<b>Eye contact</b>	<b>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.</b>
<b>Ingestion</b>	<b>Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.</b>
<b>Inhalation</b>	<b>Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.</b>
<b>Note to Physician</b>	<b>Treat symptomatically.</b>

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

Not applicable

**Indication of any immediate medical attention and special treatment**

None

## Section 5: Fire-fighting Measures

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## Extinguishing media

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical powder.

**Unsuitable extinguishing media** No data available.

### Special hazards arising from the substance or mixture

Unknown

### Advice for firefighters

Standard procedures for chemical fires

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Always wear recommended personal protective equipment.

Use personal protective equipment.

See Section 8 for more details.

### Environmental precautions

No special environmental precautions required.

### Methods and materials for containment and cleaning up

Soak up with an inert absorbent material.

### Reference to other sections

See Section 8 for more details.

## Section 7: Handling and Storage

### Precautions for safe handling

Use personal protective equipment as required. No special handling advice is necessary.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### Specific end uses

For research use only.

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

Contain no substances with occupational exposure limit values.

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Exposure Controls

#### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear respirators and components tested and approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

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<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Control of environmental exposure</b>	No special environmental precautions required.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Appearance</b>	<b>Granular crystals</b>	
<b>Odor</b>	<b>No data available</b>	
<b>Molecular weight</b>	<b>No data available</b>	
<b>pH</b>	<b>No data available</b>	
<b>Melting point/melting range</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Boiling point/boiling range</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Flash point</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Autoignition temperature</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Decomposition temperature</b>	°C Mixture has not been tested	°F Mixture has not been tested
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Upper explosive limit</b>	No data available	
<b>Lower explosive limit</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>Vapor density</b>	No data available	
<b>Relative density</b>	No data available	
<b>Specific gravity</b>	No data available	
<b>Solubility</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Viscosity</b>	No data available	
<b>Explosive properties</b>	No data available	
<b>Oxidizing properties</b>	No data available	
<b>Particle properties</b>	No data available	

### Other information

No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	Unknown
<b>Chemical stability</b>	Stable under normal conditions
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported
<b>Conditions to avoid</b>	No data available
<b>Incompatible materials</b>	No hazardous reaction known under conditions of normal use
<b>Hazardous decomposition products</b>	No data available

## Section 11: Toxicological Information

### Information on toxicological effects

There is no evidence available indicating acute toxicity.

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## Main routes of exposure

<b>Irritation</b>	Conclusive but not sufficient for classification
<b>Corrosion</b>	Conclusive but not sufficient for classification
<b>Sensitization</b>	Conclusive but not sufficient for classification
<b>Specific target organ toxicity (STOT) – single exposure</b>	Conclusive but not sufficient for classification
<b>Specific target organ toxicity (STOT) – repeated exposure</b>	Conclusive but not sufficient for classification
<b>Carcinogenicity</b>	Conclusive but not sufficient for classification
<b>Mutagenicity</b>	Conclusive but not sufficient for classification
<b>Reproductive toxicity</b>	Conclusive but not sufficient for classification
<b>Inhalation hazard</b>	Conclusive but not sufficient for classification

## Section 12: Ecological Information

### Toxicity

Contain no substances known to be hazardous to the environment or not degradable.

**Mobility in soil** No data available.

**Persistence and degradability** No data available.

**Bioaccumulative potential** No data available.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other adverse effects** No data available.

## Section 13: Disposal Considerations

### Waste disposal methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of according to approved disposal techniques. Disposal of this product, its solutions or by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## Section 14: Transport Information

### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

<b>UN number</b>	Not applicable
<b>UN proper shipping name</b>	Not applicable
<b>Transport hazard classes</b>	Not applicable
<b>Packaging group</b>	Not applicable

### Environmental hazards

Not applicable

### Special precautions for user

Not applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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## Section 15: Regulatory Information

### International Inventory

Not applicable

### UN - Chemical Weapons Convention (CWC)

Not applicable

### South Korea

Not applicable

### Singapore

Not applicable

### Taiwan (China)

Not applicable

### China

Not applicable

## Section 16: Other Information

For research use only. Not applicable for diagnostic procedures.

### References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

### Abbreviations and Acronyms

TWA - Time-weighted average

OELs - Occupational exposure limits

STEL - Short-term exposure limit

DSL/NDSL - Canada Domestic Substances List/Non-domestic Substance List

KECL - Korea Existing Chemicals List

ENCS - Japanese Existing and New Chemical Substances

IECSC - Inventory of Existing Chemical Substances Produced or Imported in China

PICCS - Philippine Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/European List of Notified Chemical Substances

TSCA - Chemical Substance Inventory, Section 8 (b) of Toxic Substance Control Act

CEPA - Canadian Environmental Protection Act

EPA - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration, United States Department of Labor

IATA - International Air Transport Association

DOT - Department of Transportation

IMDG - International Maritime Dangerous Goods

ACGIH - American Conference of Governmental Industrial Hygienists

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**NIOSH - National Institute for Occupational Safety and Health**  
**AIHA - American Industrial Hygiene Association**  
**HMIS - Hazardous Materials Information System, Department of Defense**  
**NTP - National Toxicology Program**  
**IARC - International Agency for Research on Cancer**

"The information contained here has been compiled through diligent searches and/or investigations. The recommendations given should be used with caution based on professional judgment. The information given should not be considered all-inclusive and should be interpreted as guidance only. All materials and mixtures may present unknown hazards and should be used with caution. Our company assumes no responsibility for damages or losses resulting from handling or exposure to the product described herein, since we have no control over the actual methods, quantities or conditions of use.

The information in this SDS does not constitute any express or implied warranty, including any implied warranty of merchantability or fitness for a particular purpose."

**End of Safety Data Sheet**