

Material Safety Data Sheet

MSDS No.: MSDS#EXBR052
Product Name: Instant PBS 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 : EXBR052
Product Name : Instant PBS 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

EXREprotein™

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Signal word

None

Hazard pictograms

None

Hazard pictographs

None

Hazard statements

None

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

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

Most important symptoms and effects, both acute and delayed

Not applicable

Indication of any immediate medical attention and special treatment

None

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Section 5: Fire-fighting Measures

Extinguishing Media

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). 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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Skin and body protection	Wear suitable protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Control of environmental exposure	No special environmental precautions required.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

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

Other information

No data available

Section 10: Stability and Reactivity

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

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Hazardous decomposition products No data available

Section 11: Toxicological Information

Information on toxicological effects

There is no evidence available indicating acute toxicity.

Main routes of exposure

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

UN number Not applicable

UN proper shipping name Not applicable

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Transport hazard classes Not applicable

Packaging group 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

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

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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
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