

Material Safety Data Sheet

MSDS No.: MSDS#EXBR035
Product Name: Instant TGS Buffer

First Revision Date: 2024.06.18
Last Revision Date: 2024.06.18 Version No.:1.0

Section 1: Chemical Product & Company Identification

Identification of the Substance or Mixture

Product Code : EXBR035
Product Name : Instant TGS 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

Skin corrosion/irritation	Category 1
Severe eye injury/eye irritation	Category 2A
Sensitization (skin)	Category 1

Physical hazards

Not hazardous

Environmental hazards

Not hazardous

Label Elements

Signal word

Warning

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Hazard pictograms



Hazard pictographs

Proprietary Reagent CP (0.1 %)

Hazard statements

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

Precautionary statements

Prevention

P261

Avoid breathing

P280

Wear protective gloves/eye protection/face

Response

P305+P351+P338

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention

P337+P313

If eye irritation persists: Get medical advice/ attention

Storage

Preserved in sealed containers

Disposal

Contents/containers must be disposed of according to local/regional/national/international regulations

Other Hazards

Not applicable

Section 3: Composition/Information on Ingredients

Ingredient	CAS No	Common Name	EINECS No.	Concentration or Concentration Range (mass fraction, %)
Sodium dodecyl sulfate	151-21-3	Not applicable	205-788-1	2-6

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. If symptoms persist, consult a physician.
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.

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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

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
Wear self-contained breathing apparatus.

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
Prevent the product from entering drains and do not let the material contaminate groundwater systems.

Methods for containment and removal of spilled chemicals and disposal materials used
Soak up with an inert absorbent material (sand, silica gel, acid binder, universal binder, saw dust, etc.) Sweep and transfer with a shovel into an appropriate container for disposal. Thoroughly clean contaminated surfaces.

Reference to other sections
See Sections 7, 8 and 13 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

Chemical Name	Australia STEL	Australia	Australia – Skin Absorbers	Australia - OES - Peak
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Sodium dodecyl sulfate 151-21-3	None	None	None	None
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Chemical Name	New Zealand – Workplace Exposure Limits	New Zealand TWA	New Zealand STEL	New Zealand Ceiling Limits
Sodium dodecyl sulfate 151-21-3	No data available	No data available	No data available	No data available

Chemical Name	China OEL (MAC)	China-Skin Absorbers	Hong Kong OEL
Sodium dodecyl sulfate 151-21-3	None	None	None

Chemical Name	Korea OEL (CEILING)	Korea OEL (TWA)	Korea OEL (STEL)
Sodium dodecyl sulfate 151-21-3	None	None	None

Chemical Name	Taiwan OEL - TWA	Taiwan OEL (Skin Notations, Carcinogens)	Taiwan OEL (STELs)	Taiwan OEL (Ceilings)
Sodium dodecyl sulfate 151-21-3	None		None	

Chemical Name	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Sodium dodecyl sulfate 151-21-3	None	None

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.
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

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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
Hazardous decomposition products	No data available

Section 11: Toxicological Information

Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium dodecyl sulfate	1,288 mg/kg (rat)	50 mg/kg (rab)	>3900mg/m3(Rat)

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
STOT - single exposure	Conclusive but not sufficient for classification
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

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Toxicity

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

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Sodium dodecyl sulfate	<i>Seudokirchneriella subcapitata</i> EC ₅₀ = 3.59 - 15.6 mg/L (96 h) <i>Pseudokirchneriella subcapitata</i> EC ₅₀ = 117 mg/L (96 h) <i>Desmodesmus subspicatus</i> EC ₅₀ = 30-100 mg/L (96 h) <i>Desmodesmus subspicatus</i> EC ₅₀ = 53 mg/L (72 h)	Daphnia magna EC ₅₀ = 1.8 mg/L (48 h)	No data available	No data available	logPow1.6

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
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

Chemical Name	US TSCA	Canada (DSL)	NDSL	PICCS (Philippines)

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Sodium dodecyl sulfate	Listed	Listed	-	Listed
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Chemical Name	ENCS (Japan)	IECSC - Inventory of Existing Chemical Substances Produced or Imported in China	South Korea (KECL)	AICS (Australia)
Sodium dodecyl sulfate	Listed	Listed	Listed	Listed

Chemical Name	NZIoC - New Zealand Inventory of Chemicals	EINECS (EU)	ELINCS (European List of Notified Chemical Substances)
Sodium dodecyl sulfate	Listed	Listed	-

UN - Chemical Weapons Convention (CWC)

Not applicable

South Korea

Chemical Name	Industrial Safety and Health Act (ISHA)	Chemicals Control Act (CCA)	Wastes Control Act
Sodium dodecyl sulfate	Not applicable	Not applicable	Not applicable

Singapore

Chemical Name	Singapore - Poisons List
Sodium dodecyl sulfate	Not listed

Taiwan (China)

Chemical Name	Toxic Chemical Substances Control Act - Classification and Control Levels	Toxic Chemical Substances Control Act - Threshold Regulated Quantities	Hazard Prevention Standard for Specified Chemical Substances
Sodium dodecyl sulfate	Not listed	Not listed	Not listed

China

Chemical Name	China - Catalogue of Occupational Hazard Factors	China - Dangerous Goods List	China - Catalog of Hypertoxic Chemicals	China - List of Dangerous Chemicals for Priority Management
Sodium dodecyl sulfate	Not listed	Not listed	Not listed	Not listed

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

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DSL/NDSL - Canada DoTGSStic Substances List/Non-doTGSStic 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
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 assuTGS 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