

Safety Data Sheet

SDS-PAGE Protein Loading Buffer 5X (Reducing)

Cat#: orb90545

1. CHEMICAL PRODUCT IDENTIFICATION

1.1 Identification of the Substance

Catalog Number: orb90545

Product Name: SDS-PAGE Protein Loading Buffer 5X (Reducing)

1.2 Application of the substance or mixture

For research use only.

2. HAZARDS IDENTIFICATION

GHS Classification

Signal Word

None

Hazard pictograms

None

Health hazards

Not Hazardous

Physical hazards

Not Hazardous

Environmental hazards

Not Hazardous

Hazard Statements

Not Applicable

Precautionary Statements

Prevention

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

Other hazards

Not Applicable

HMIS

Health	0
Flammability	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	EC-No.	Concentration
(DTT) 2,3-Butanediol, 1,4-dimercapto-, (theta, theta)-	3483-12-3	222-468-7	7.5%
Glycerol	56-81-5	200-289-5	50%
Sodiumdodecyl Sulphate	151-21-3	205-788-1	10%

4. FIRST AID MEASURES

Skin contact	Wash off immediately with soap and plenty of water.
Eye contact	Rinse immediately with plenty of water. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Notes to physician	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
Special hazards arising from the substance or mixture	None in particular.
Further information	No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	For personal protection see section 8.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections	For disposal see section 13.
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7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes.
Storage	Keep container tightly closed and store in a well-ventilated place. Store locked up. Light sensitive.

8. EXPOSURE CONTROLS

8.1 Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
(DTT) 2,3-Butanediol, 1,4-dimercapto-, (theta, theta)-	None	None	None	None
Glycerol	15 mg/m ³ 5 mg/m ³	None	None	None
Sodiumdodecyl Sulphate	None	None	None	None

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
(DTT) 2,3-Butanediol, 1,4-dimercapto-, (theta, theta)-	None	None	None
Glycerol	None	None	None
Sodiumdodecyl Sulphate	None	None	None

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Respiratory protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand protection	Protective gloves.
Eye protection	Safety glasses with side-shields.
Skin and body protection	Lightweight protective clothing.

Environmental exposure controls

Prevent product from entering drains

9. PHYSICAL AND CHEMICAL PROPERTIES

Important Health Safety and Environment Information

a) Appearance Form:	Liquid
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
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) Vapor pressure	no data available
l) Vapor density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: noctanol/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	no data available
t) Oxidizing properties	no data available

10. STABILITY AND REACTIVITY

Reactivity	No data available.
Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to avoid	None under normal use conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None under normal use conditions.

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
(DTT) 2,3-Butanediol, 1,4-dimercapto-, (theta, theta)-	No data available	No data available	No data available
Glycerol	= 12600 mg/kg Oral	> 10 g/kg (Rabbit)	>570mg/m ³ (Rat)
Sodiumdodecyl Sulphate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	>3900mg/m ³ (Rat)

Principle Routes of Exposure/Potential Health effects

Acute toxicity	Data is conclusive but insufficient for classification.
Skin corrosion/irritation	Data is conclusive but insufficient for classification.
Serious eye damage/irritation	Data is conclusive but insufficient for classification.
Respiratory or skin sensitization	Data is conclusive but insufficient for classification.
Specific target organ toxicity (STOT)– Single exposure	Data is conclusive but insufficient for classification.
Specific target organ toxicity (STOT)– Repeated exposure	Data is conclusive but insufficient for classification.
Carcinogenicity	Data is conclusive but insufficient for classification.
Germ cell mutagenicity	Data is conclusive but insufficient for classification.
Reproductive toxicity	Data is conclusive but insufficient for classification.
Aspiration hazard	Data is conclusive but insufficient for classification.

12. ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Mobility	no data available
Biodegradation	no data available
Bioaccumulation	no data available

13. DISPOSAL CONSIDERATIONS

Disposal methods	Dispose of waste in accordance to applicable national, regional, or local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

15. REGULATORY INFORMATION

Component	US TSCA
(DTT) 2,3-Butanediol, 1,4-dimercapto-, (theta, theta)-	Listed
Glycerol	Listed
Sodiumdodecyl Sulphate	Listed

US Federal Regulations

SARA 313 Components

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since Biorbyt cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.