

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1.4

Creation Date: 2017/09/11

Revision Date: 2026/01/23

1. Identification

Product identifier

Product name	6X Laemmli SDS Sample Buffer, reducing
Product number	SBR06-15
Recommended use	Biochemical reagent for research use only

Details of the supplier of the safety data sheet

Manufacture / Supplier	Energenesis Biomedical Co., Ltd.
Address	6F-3, No.21, Ln. 583, Ruiguang Rd., Neihsu Dist. Taipei City 114, Taiwan
Phone	+886-2-2627-0835
Fax	+886-2-2627-0836

Emergency telephone number +886-2-2627-0835

2. Hazard(s) identification

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 3	H311
Acute Tox. 4	H302, H312, H332
Skin Corr. 1B	H314
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335
Aquatic Chronic 2	H411

Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictogram



Signal word

Warning

Hazard statements

H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

P260	Do not breathe dusts or mists.
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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hand thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

Substance/mixture		Mixture	
CAS No. EC No. Index No.	Component Name Synonyms	1272/2008 (CLP)	Percent
56-81-5 200-289-5 —	Glycerol		50
77-86-1 201-064-4 —	Trometamol		4.5
151-21-3 205-788-1 —	Sodium dodecyl sulphate	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319	9

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62625-28-9 263-653-2 —	Sodium α -(3,5-dibromo-4-oxo-2,5-cyclohexadienylidene)- α -(3,5-dibromo-4-hydroxyphenyl)toluenesulphonate	Skin Irrit. 2; H315 Eye Irrit. 2, H319 STOT SE 3; H335	0.03
151-21-3 205-788-1 —	2-mercaptoethanol	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Acute Tox. 4, H332 Aquatic Chronic 2; H411	9

Additional information

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

Description of first aid measures

Eye Contact	Flush eyes with water as a precaution
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact	Wash off with soap and plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Special hazards arising from the substance or mixture

No data available

Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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Reference to other sections

For disposal see section 13.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Recommended storage temperature: -20 °C

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. Exposure controls/personal protection

Control parameters

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Component Name CAS No.	PEL-TWA	PEL-STEL	PEL-Ceiling	BEIs
Glycerol 56-81-5	10 mg/m ³	—	—	—
Trometamol 77-86-1	5 mg/m ³	—	5 mg/m ³	—

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye protection

Wear chemical safety goggles. An eye wash station must be available where this product is used.

Skin and body protection

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

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hand protection

Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form: liquid Color: blue

Odour

No data available

Odour Threshold

No data available

pH

No data available

Melting point/freezing point

No data available

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Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower and upper explosive (flammable) limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	No data available
Solubility in water	No data available
Partition coefficient: n-octanol/ water (log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects	No data available
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Acute toxicity

Component Name CAS No.	Result	Species	Dose	Exposure
Glycerol 56-81-5	LD50 Dermal LD50 Oral	Rat Rat	21,900 mg/kg 12,600 mg/kg	—
Trometamol 77-86-1	LD50 Dermal LD50 Oral	Rat Rat	>5,000 mg/kg >5,000 mg/kg	— —
Sodium dodecyl sulphate 151-21-3	LD50 Dermal LD50 Oral	Rabbit Rat	580 mg/kg 1,288 mg/kg	— —
2-mercaptoethanol 60-24-2	LD50 Dermal LD50 Oral	Rabbit Rat	112-224 mg/kg 244 mg/kg	— —

Skin corrosion/irritation

Component Name CAS No.	Result	Species	Exposure
Sodium dodecyl sulphate	Eyes - Moderate irritant	Rabbit	10 mg (standard Draize)

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151-21-3	Skin - Mild irritant	Rabbit	25 mg (standard Draize)
Serious eye damage/eye irritation	No data available		
Respiratory or skin sensitisation	No data available		
Germ cell mutagenicity	No data available		
Carcinogenicity	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	No data available		

12. Ecological information

Toxicity

Component Name CAS No.	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microto x Data	log Pow
Sodium dodecyl sulphate 151-21-3	Desmodes mus subspicatus EC50 53 mg/L (72 h) Desmodes mus subspicatus EC50 30 - 100 mg/L (96 h) Pseudokirc hneriella subcapitata EC50 3.59 - 15.6 mg/L (96 h) Pseudokirc hneriella subcapitata EC50 117 mg/L (96 h)	Daphnia magna EC50 1.8 mg/L (48 h)	Pimephales promelas LC50 10.2 - 22.5 mg/L (96 h semi- static 1) Poecilia reticulata LC50 10.8 - 16.6 mg/L (96 h static 1) Poecilia reticulata LC50 13.5 - 18.3 mg/L (96 h semi-static 1) Pimephales promelas LC50 15 - 18.9 mg/L (96 h static 1) Pimephales promelas LC50 22.1 - 22.8 mg/L (96 h static 1) Lepomis macrochirus LC50 4.06 - 5.75 mg/L (96 h static 1) Lepomis macrochirus LC50 4.2 - 4.8 mg/L (96 h flow-through 1) Oncorhynchus mykiss LC50 4.3 - 8.5 mg/L (96 h static 1) Pimephales promelas LC50 5.8 - 7.5 mg/L (96 h static 1) Pimephales promelas LC50 6.2 - 9.6 mg/L (96 h 1) Pimephales promelas LC50 8 - 12.5 mg/L (96 h static 1) Brachydanio rerio LC50 9.9 - 20.1 mg/L (96 h semi-static 1) Cyprinus carpio LC50 1.31 mg/L (96 h semi-static 1) Oncorhynchus mykiss LC50 4.2 mg/L (96 h 1) Lepomis macrochirus LC50 4.5 mg/L (96 h 1)	—	1.6

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			Oncorhynchus mykiss LC50 4.62 mg/L (96 h flow-through 1) Brachydanio rerio LC50 7.97 mg/L (96 h flow-through 1)		
2-mercaptoethanol 60-24-2	Desmodes mus subspicatus EC50 12 mg/L (72 h)	Daphnia magna EC50 1.52 mg/L (48 h)	Leuciscus idus LC50 46 - 100 mg/L (96 h static)	Pseudo monas putid EC50 125 mg/L (17 h)	-0.056

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects No data available

13. Disposal considerations

Waste treatment methods

Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. Transport information

IATA / ADR / RID / IMDG Classified as dangerous in the meaning of transport regulations.

UN number —

UN proper shipping name Not dangerous goods

Transport hazard class(es) —

Packaging group —

Environmental hazards no

Special precautions for user No data available

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No data available

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15. Regulatory information

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.

Chemical safety assessment

No data available

16. Other information

Abbreviations

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment, long-term hazard
BEIs	Biological exposure indices
Eye Irrit.	Serious eye damage/eye irritation
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association-Dangerous Goods Regulations
CAS	Chemical Abstracts Service (division of the American Chemical Society)
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.	Skin corrosion/irritation
Skin Irrit.	Skin corrosion/irritation
STEL	Short Term Exposure Limit
STOT SE	Specific target organ toxicity, single exposure; Respiratory tract irritation
TWA	Time Weighted Average

Further information

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