

# SAFETY DATA SHEET

Revision Date 13-Jul-2018

**Revision Number** 1

	1. Identification	
Product Name	Laemmli SDS sample buffer, reducing (6X)	
Cat No. :	J61337	
Synonyms	No information available	
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use	
Details of the supplier of the safety data sheet		
Company		

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

# Classification

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This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1A

#### Label Elements

Signal Word Danger

#### **Hazard Statements**

Harmful if swallowed Toxic in contact with skin Causes skin irritation May cause an allergic skin reaction Causes serious eye damage Harmful if inhaled



# Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

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

# Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

### Storage

Store locked up

## Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Glycerin	56-81-5	50
Water	7732-18-5	26.07
Sodium lauryl sulfate	151-21-3	9
2-Mercaptoethanol	60-24-2	9
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	1185-53-1	5.9
Phenol, 4,4'-(3H-1,2-benzoxathiol-3-ylidene)bis[2,6-dibromo -, S,S-dioxide, monosodium salt	62625-28-9	0.03

# 4. First-aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In

	the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms and effects	Causes eye burns. May cause allergic skin reaction. Causes severe eye damage. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Notes to Physician	Treat symptomatically

5. Fire-fighting measures		
Unsuitable Extinguishing Media	No information available	
Flash Point Method -	No information available No information available	
Autoignition Temperature No information available Explosion Limits		
Upper	No data available	
Lower No data available		
Sensitivity to Mechanical Impact No information available		
Sensitivity to Static Discharge	No information available	

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

# **Hazardous Combustion Products**

None known

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

Ν	FPA
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Health 3	Flammability 0	<b>Instability</b> 0	Physical hazards -
	6. Accidental rel	ease measures	
Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.			
Environmental Precautions		ater or sanitary sewer system. id release to the environment.	

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Glycerin		(Vacated) TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
-		(Vacated) TWA: 5 mg/m <sup>3</sup>		_
		TWA: 15 mg/m <sup>3</sup>		
		TWA: 5 mg/m <sup>3</sup>		

<u>Legend</u>

OSHA - Occupational Safety and Health Administration

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Long sleeved clothing.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties			
Physical State	ite Liquid		
Appearance	Blue		
Odor	No information available		
Odor Threshold	No information available		
рН	No information available		
Melting Point/Range	No data available		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation Rate	No information available		
Flammability (solid,gas)	Not applicable		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	<=1100 hPa @ 50 °C		
Vapor Density	No information available		
Specific Gravity	No information available		
Solubility	No information available		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Viscosity	No information available		

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.

Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products None under normal use conditions			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		
	11. Toxicological information		
Acute Toxicity			

Product Information	1 IIII						
Oral LD50		Category 4. ATE = 300 - 2000 mg/kg.					
Dermal LD50		Category 3. ATE = 200 - 1000 mg/kg.					
Vapor LC50		Category 4. ATE = 10 - 20 mg/l.					
Component Informa	ition		-				
Componen	t	LD50 Oral		LD50 Dermal	LC50	Inhalation	
Glycerin		12600 mg/kg ( Rat )	> 1	l0 g/kg (Rabbit)	> 2.75 mg/l	_/4h ( Rat )(mist)	
Water		-		Not listed	No	ot listed	
Sodium lauryl su	ulfate	LD50 = 1288 mg/kg (R	tat) LD50 =	200 mg/kg (Rabbit)	LC50 > 3900	mg/m <sup>3</sup> (Rat) 1 h	
2-Mercaptoetha	anol	LD50 = 244 mg/kg (Ra		) µL/kg (Rabbit) 224 mg/kg (Rabbit)	No	ot listed	
			9-61-				
		No information ava					
Irritation Sensitization		No information ava	ilable				
		No information ava	ilable	ach agency has liste	d any ingredient	as a carcinogen	
Sensitization	CAS-No	No information ava	ilable	ach agency has lister	d any ingredient OSHA	as a carcinogen	
Sensitization Carcinogenicity	<b>CAS-No</b> 56-81-5	No information ava	ilable dicates whether e				
Sensitization Carcinogenicity Component		No information ava The table below inc	ilable dicates whether e NTP	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity Component Glycerin	56-81-5	No information ava The table below inc IARC Not listed	ilable dicates whether e <u>NTP</u> Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed	
Sensitization Carcinogenicity Component Glycerin Water	56-81-5 7732-18-5	No information ava The table below inc IARC Not listed Not listed Not listed	ilable dicates whether e Not listed Not listed	ACGIH Not listed Not listed	OSHA Not listed Not listed	Mexico Not listed Not listed	
Sensitization Carcinogenicity Component Glycerin Water Sodium lauryl sulfate 2-Mercaptoethanol 1,3-Propanediol, 2-amino-2-(hydroxyme	56-81-5 7732-18-5 151-21-3	No information ava The table below inc IARC Not listed Not listed Not listed Not listed	ilable dicates whether e <u>NTP</u> Not listed Not listed Not listed	ACGIH Not listed Not listed Not listed	OSHA Not listed Not listed Not listed	Mexico Not listed Not listed Not listed	
Sensitization Carcinogenicity Component Glycerin Water Sodium lauryl sulfate 2-Mercaptoethanol	56-81-5 7732-18-5 151-21-3 60-24-2	No information ava The table below inc IARC Not listed Not listed Not listed Not listed Not listed	ilable dicates whether e <u>NTP</u> Not listed Not listed Not listed Not listed	ACGIH Not listed Not listed Not listed Not listed	OSHA Not listed Not listed Not listed Not listed	Mexico Not listed Not listed Not listed Not listed	

Mutagenic Effects No information available

Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

### delayed

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

#### No information available **Endocrine Disruptor Information**

**Other Adverse Effects** 

12. Ecological information

The toxicological properties have not been fully investigated.

### Ecotoxicity

The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Glycerin	Not listed	LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss)	Not listed	EC50: > 500 mg/L, 24h (Daphnia magna)
Sodium lauryl sulfate	EC50: = 53 mg/L, 72h (Desmodesmus subspicatus) EC50: 30 - 100 mg/L, 96h (Desmodesmus subspicatus) EC50: = 117 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: 3.59 - 15.6 mg/L, 96h static (Pseudokirchneriella subcapitata)	1.31 mg/L LC50 96 h 9.9-20.1 mg/L LC50 96 h 4.5 mg/L LC50 96 h 7.97 mg/L LC50 96 h 10.2-22.5 mg/L LC50 96 h 10.8-16.6 mg/L LC50 96 h 13.5-18.3 mg/L LC50 96 h 15-18.9 mg/L LC50 96 h 22.1-22.8 mg/L LC50 96 h 4.06-5.75 mg/L LC50 96 h 4.2-4.8 mg/L LC50 96 h 5.8-7.5 mg/L LC50 96 h 6.2-9.6 mg/L LC50 96 h 8-12.5 mg/L LC50 96 h	= 0.46 mg/L EC50 Photobacterium phosphoreum 30 min = 0.72 mg/L EC50 Photobacterium phosphoreum 15 min = 1.19 mg/L EC50 Photobacterium phosphoreum 5 min	EC50: = 1.8 mg/L, 48h (Daphnia magna)
2-Mercaptoethanol	EC50: = 12 mg/L, 72h (Desmodesmus subspicatus)	LC50: 46 - 100 mg/L, 96h static (Leuciscus idus)	= 125 mg/L EC50 Pseudomonas putida 17 h	EC50: = 1.52 mg/L, 48h (Daphnia magna)
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	Not listed	Not listed	Not listed	EC50 >100 mg/L/48h

Persistence and Degradability

Miscible with water Persistence is unlikely based on information available.

**Bioaccumulation/Accumulation** 

No information available.

Mobility

Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Glycerin	-1.76
Sodium lauryl sulfate	1.6
2-Mercaptoethanol	-0.056

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

# 15. Regulatory information

### All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Glycerin	Х	Х	-	200-289-5	-		Х	Х	Х	Х	Х
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Sodium lauryl sulfate	Х	Х	-	205-788-1	-		Х	Х	Х	Х	Х
2-Mercaptoethanol	Х	Х	-	200-464-6	-		Х	Х	Х	Х	Х
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	Х	Х	-	214-684-5	-		X	-	Х	Х	Х
Phenol, 4,4'-(3H-1,2-benzoxathiol-3-yl idene)bis[2,6-dibromo-, S,S-dioxide, monosodium salt	Х	Х	-	263-653-2	-		X	-	-	х	-

# Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Glycerin	Х	Х	Х	-	Х
Water	-	-	Х	-	-
2-Mercaptoethanol	Х	Х	Х	-	-

# U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

## **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

# Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	13-Jul-2018 13-Jul-2018 SDS authoring systems update, replaces ChemGes SDS No. 232.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# End of SDS