

# **SAFETY DATA SHEET**

Revision Date 24-Feb-2020 Revision Number 3

## 1. Identification

Product Name Laemmli SDS sample buffer, reducing (6X)

Cat No. : J61337

Synonyms No information available

**Recommended Use** Laboratory chemicals.

**Uses advised against** 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

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

Acute oral toxicity

Acute dermal toxicity

Acute Inhalation Toxicity - Vapors

Serious Eye Damage/Eye Irritation

Skin Sensitization

Category 4

Category 4

Category 1

Category 1

## Label Elements

### Signal Word

Danger

#### **Hazard Statements**

Toxic in contact with skin
May cause an allergic skin reaction
Causes serious eye damage
May cause respiratory irritation
Harmful if swallowed or 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** Remove 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

Treat symptomatically

# 5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

Notes to Physician

No information available

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.

<u>NFPA</u>

Health Flammability Instability Physical hazards
0 0 -

### 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Keep people

away from and upwind of spill/leak. Evacuate personnel to safe areas.

**Environmental Precautions**Do not flush into surface water or sanitary sewer system.

**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/face protection. Do not get in eyes, on skin, or on

clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not

ingest. If swallowed then seek immediate medical assistance.

#### 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>		

#### Legend

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**Wear appropriate protective gloves and clothing to prevent skin exposure.

**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 StateLiquidAppearanceBlue

Odor
Odor Threshold
PH
No information available
No information available
No information available
No information available
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
Lower
No data available
No data available
Vapor Pressure
Vapor Density
No information available
Specific Gravity
No information available
Solubility
No information available
Partition coefficient; n-octanol/water
No data available

Autoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information available

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Incompatible products. **Conditions to Avoid** 

**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** 

Oral LD50 Category 4. ATE = 300 - 2000 mg/kg. Category 3. ATE = 200 - 1000 mg/kg. **Dermal LD50** Vapor LC50 Category 4. ATE = 10 - 20 mg/l.

**Component Information** 

Component	LD50 Oral LD50 Dermal		LC50 Inhalation
Glycerin	12600 mg/kg ( Rat )	> 10 g/kg(Rabbit)	> 2.75 mg/L/4h ( Rat )(mist)
Water	-	-	-
Sodium lauryl sulfate	LD50 = 1288 mg/kg (Rat)	LD50 = 200 mg/kg ( Rabbit )	LC50 > 3900 mg/m³ (Rat) 1 h
2-Mercaptoethanol	LD50 = 244 mg/kg ( Rat )	150 μL/kg (Rabbit) 112 - 224 mg/kg (Rabbit)	Not listed
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	OECD 425 (Rat) LD50 > 5000 mg/kg bw	OECD 402 (Rat) LD50 > 5000 mg/kg bw	Not listed

**Toxicologically Synergistic** 

**Products** Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Glycerin	56-81-5	Not listed				
Water	7732-18-5	Not listed				
Sodium lauryl sulfate	151-21-3	Not listed				
2-Mercaptoethanol	60-24-2	Not listed				
1,3-Propanediol, 2-amino-2-(hydroxyme thyl)-, hydrochloride	1185-53-1	Not listed				
Phenol, 4,4'-(3H-1,2-benzoxath iol-3-ylidene)bis[2,6-di bromo-, S,S-dioxide, monosodium salt		Not listed				

No information available **Mutagenic Effects** 

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard** 

delayed

Symptoms / effects, both acute and 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

No information available **Endocrine Disruptor Information** 

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## 12. Ecological information

#### **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: 30 - 100 mg/L, 96h (Desmodesmus subspicatus) EC50: = 53 mg/L, 72h (Desmodesmus subspicatus) EC50: = 117 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: 3.59 - 15.6 mg/L, 96h static (Pseudokirchneriella subcapitata)	4.06-5.75 mg/L LC50 96 h 4.2-4.8 mg/L LC50 96 h 4.3-8.5 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 4.2 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	OECD 209 EC50 > 1000 mg/L (3h)	Daphnia Magna EC50 >100 mg/L (48h)

Miscible with water Persistence is unlikely based on information available. **Persistence and Degradability** 

**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
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	-3.6

## 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

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. Regulatory information

### **United States of America Inventory**

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Glycerin	56-81-5	Х	ACTIVE	-
Water	7732-18-5	X	ACTIVE	-
Sodium lauryl sulfate	151-21-3	Х	ACTIVE	-
2-Mercaptoethanol	60-24-2	Х	ACTIVE	-
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	1185-53-1	Х	ACTIVE	-
Phenol, 4,4'-(3H-1,2-benzoxathiol-3-yliden e)bis[2,6-dibromo-, S,S-dioxide, monosodium salt	62625-28-9	Х	ACTIVE	-

### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Glycerin	56-81-5	X	-	200-289-5	X	X	Х	Х	KE-29297
Water	7732-18-5	X	-	231-791-2	Х	X	Х	Х	KE-35400
Sodium lauryl sulfate	151-21-3	X	-	205-788-1	X	X	Х	Х	KE-21884
2-Mercaptoethanol	60-24-2	Х	-	200-464-6	Х	X	Х	Х	KE-23095
1,3-Propanediol,	1185-53-1	Х	-	214-684-5	Х	X	Х	Х	KE-34819
2-amino-2-(hydroxymethyl)-, hydrochloride									
Phenol,	62625-28-9	Х	-	263-653-2	Х	-	-	Х	-
4,4'-(3H-1,2-benzoxathiol-3-yliden									
e)bis[2,6-dibromo-, S,S-dioxide,									
monosodium salt									

## U.S. Federal Regulations

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	X	X	X	-	X
Water	-	-	X	-	-
2-Mercaptoethanol	X	X	X	-	-

**U.S. Department of Transportation** 

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

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** 24-Feb-2020 **Print Date** 24-Feb-2020

**Revision Summary** 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**