

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/15/2021

Reviewed on 02/15/2021

1 Identification

- · Product Identifier
- · Trade Name: Lithium Eluants for Amino Acid Analysis
- · Product Number: Li275, Li280, Li292, Li365, Li375, Li750, 1700-1125
- *Relevant identified uses of the substance or mixture and uses advised against:* No further relevant information available.
- · Product Description: Lithium eluants for amino acids analysis.
- Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: Pickering Laboratories, Inc. 1280 Space Park Way Mountain View, CA 94043

Phone: (650) 694-6700 Fax: (650) 968-0749 www.pickeringlabs.com support@pickeringlabs.com *Emergency telephone number:* Clean Harbors Environmental Services

1-800-645-8265

2 Hazard(s) Identification

· Classification of the substance or mixture:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

· Label elements:

- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- 0 % of the mixture consists of component(s) of unknown toxicity.
- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTHImage: Constraint of the sector of the se

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Chemical characterization: Substance

· **Description:** Mixture of substances listed below with non-hazardous additions.

(Contd. on page 2)



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/15/2021

Reviewed on 02/15/2021

Trade Name: Lithium Eluants for Amino Acid Analysis

· Dangerous Components:		
CAS: 7447-41-8	Lithium Chloride	0.2-3.4%
RTECS: OJ 5950000	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	-
CAS: 126-33-0	Sulpholane	0.2-2%
RTECS: XN 0700000	🚸 Acute Tox. 4, H302	

• Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· Description of first aid measures

- · General information: If symptoms persist, call a physician.
- · After inhalation: Not anticipated under normal use.
- · After skin contact: If skin irritation occurs, consult a doctor.
- · After eye contact:
- If eye irritation occurs, consult a doctor.
- Rinse opened eye for several minutes under running water.
- After swallowing:

Rinse mouth with water, ensuring that the rinse water is not swallowed. Drink 2 glasses of water to dilute and induce vomitting by touching one finger to the back of the victim's throat. Seek medical attention.

- Information for doctor
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:
- No further relevant information available.

5 Fire-Fighting Measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations.

- Reference to other sections:
- See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

· PAC-1:		
7447-41-8	Lithium Chloride	2.3 mg/m³
126-33-0	Sulpholane	4.1 mg/m³
		(Contd. on page 3)



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/15/2021

Reviewed on 02/15/2021

Trade Name: Lithium Eluants for Amino Acid Analysis

65-85-0	Benzoic acid	13 mg/m³
• PAC-2:		
7447-41-8	Lithium Chloride	25 mg/m³
126-33-0	Sulpholane	45 mg/m³
65-85-0	Benzoic acid	140 mg/m³
• PAC-3:		
7447-41-8	Lithium Chloride	150 mg/m³
126-33-0	Sulpholane	400 mg/m ³
65-85-0	Benzoic acid	830 mg/m³
(

7 Handling and Storage

· Handling

- Precautions for safe handling:
- Avoid contact with skin, eyes and clothing

Use personal protection equipment as outlined in section 8.

· Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Store in dry conditions at a temperature range of 8°C - 25°C.

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters:

· Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists that were valid during the creation of this SDS were used as basis.

- Exposure controls:
- Personal protective equipment
- General protective and hygienic measures:

Use adequate exhaust ventilation to prevent inhallation of product vapors.

Do not eat or drink while handling product.

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

Breathing equipment:

Respiratory protection is not required unless handling of the material produces nuisance airborne concentrations.

Protection of hands:



Protective gloves

· Material of gloves: Latex or vinyl



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/15/2021

Reviewed on 02/15/2021

Trade Name: Lithium Eluants for Amino Acid Analysis

• Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

• Eye protection:



Goggles recommended during refilling.

· Body protection: Lab coat

· Limitation and supervision of exposure into the environment: None

Physical and Chemical Properties

 Information on basic physical and cl General Information 	hemical properties	
 Appearance: Form: Color: Odor: Odor threshold: 	Liquid Colorless Odorless Not determined.	
· pH-value @ 20 °C (68 °F):	2.8-7.5	
 Change in condition Melting point/Melting range: 	Not determined.	
· Flash point:	None	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	Not applicable	
• Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not self-igniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapor pressure @ 20 °C (68 °F):	≤23 hPa (≤17.3 mm Hg)	
 Density: Relative density: Vapor density: Evaporation rate: 	Not determined. Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with: Water: 	Aqueous solution	
· Partition coefficient (n-octanol/water	<i>):</i> Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
 Solvent content: VOC content: 	0.00 %	(Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/15/2021

Reviewed on 02/15/2021

Trade Name: Lithium Eluants for Amino Acid Analysis

• Other information:

No further relevant information available.

10 Stability and Reactivity

- · *Reactivity:* No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials:

Primary and secondary amines will cause non-hazardous contamination of the solutions.

· Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

7447-41-8 Lithium Chloride

Oral LD50 526 mg/kg (Rat)

126-33-0 Sulpholane

Oral LD50 1,941 mg/kg (Rat)

Dermal LD50 4,009 mg/kg (Rabbit)

- Primary irritant effect:
- · On the skin: No irritating effect.
- · On the eye: No irritating effect.
- Additional toxicological information:
- · Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

2 Ecological Information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · *Mobility in soil:* No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.



OSHA HazCom Standard 29 ČFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/15/2021

Reviewed on 02/15/2021

Trade Name: Lithium Eluants for Amino Acid Analysis

· Other adverse effects: No further relevant information available.

3 Disposal Considerations

· Waste treatment methods

- · Recommendation:
- Do not allow product to reach sewage system.

This product may be mixed with a combustible solvent and burned in a chemical incinerator equipped with an afterburner and scrubber. This product can also be sent to an EPA approved waste disposal facility. Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packaging
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

 · UN-Number: · DOT, ADR/ADN, ADN, IMDG, IATA · UN proper shipping name: · DOT, ADR/ADN, ADN, IMDG, IATA · Transport hazard class(es): 	Non-Regulated Material Non-Regulated Material
· DOT, ADR/ADN, ADN, IMDG, IATA · Class: · Packing group: · DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material
• Environmental hazards: • Special precautions for user:	Not applicable. Not applicable.
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code: • UN "Model Regulation":	

5 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.
- SARA (Superfund Amendments and Reauthorization):

 Section 35 	5 (extremely hazardous substances):	
None of the	e ingredients are listed.	
· Section 31	3 (Specific toxic chemical listings):	
None of the	e ingredients are listed.	
· TSCA (To	ric Substances Control Act):	
7732-18-5	Water, distilled water, deionized water	ACTIVE
7447-41-8	Lithium Chloride	ACTIVE
126-33-0	Sulpholane	ACTIVE
65-85-0	Benzoic acid	ACTIVE
· Hazardous	s Air Pollutants	
None of the	e ingredients are listed.	
· California	Proposition 65:	
· Chemicals	known to cause cancer:	

None of the ingredients are listed.

(Contd. on page 7)



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/15/2021

Reviewed on 02/15/2021

Trade Name: Lithium Eluants for Amino Acid Analysis

None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
New Jersey Right-to-Know List:	
65-85-0 Benzoic acid	
New Jersey Special Hazardous Substance List:	
None of the ingredients are listed.	
Pennsylvania Right-to-Know List:	
126-33-0 Sulpholane	
65-85-0 Benzoic acid	
Pennsylvania Special Hazardous Substance List:	
65-85-0 Benzoic acid	
Carcinogenic categories:	'
EPA (Environmental Protection Agency):	
65-85-0 Benzoic acid	
TLV (Threshold Limit Value established by ACGIH):	'
None of the ingredients are listed.	

None of the ingredients are listed.

· GHS label elements Non-Regulated Material

· Hazard pictograms: Non-Regulated Material

· Signal word: Non-Regulated Material

· Hazard statements: Non-Regulated Material

National regulations:

None of the ingredients are listed.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Contact:

· Date of last revision/ revision number: 02/15/2021 / 8

• Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/15/2021

Reviewed on 02/15/2021

Trade Name: Lithium Eluants for Amino Acid Analysis

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A * * Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106