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Safety Data Sheet acc. to OSHA HCS

Printing date 02/12/2024

Reviewed on 05/18/2023

1 Identification

- · Product identifier
- · Trade name: <u>AlphaLISA® Lysis Buffer</u>, 5X (10 mL)
- **Product number:** AL003C
- · Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Revvity, Inc 549 Albany Street Boston, MA 02118

- Information department: US Technical Support 800-762-4000
- Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300 If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1 • Additional information: For	H410 Very toxic to aquatic life with long lasting effects. the wording of the listed H phrases refer to section 16.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

Hazard-determining components of labeling:
5-chloro-2-methyl-2H-isothiazol-3-one
Trisodium orthovanadate
Hazard statements
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.
Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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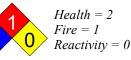
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Classification system:

 \cdot NFPA ratings (scale 0 - 4)



3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
9002-93-1	Polyethylene glycol octylphenol ether	2.5-10%
151-21-3	sodium dodecyl sulphate	<1%
145224-92-6	Deoxycholic acid sodium monohydrate	<1%
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	<1%
13721-39-6	Trisodium orthovanadate	<1%

4 First-aid measures

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 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.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

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6 Accidental release measures

Environmen	ntal precautions:	
	v product to reach sewage system or any water course.	
	ective authorities in case of seepage into water course or sewage system.	
	d material for containment and cleaning up:	
	liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	taminated material as waste according to section 13.	
Ensure adeq	uate ventilation.	
	o other sections	
	7 for information on safe handling.	
	8 for information on personal protection equipment. 13 for disposal information.	
	ction Criteria for Chemicals	
PAC-1:		
56-81-5	glycerol	45 mg/m^3
7365-45-9	HEPES Free Acid	30 mg/m ³
151-21-3	sodium dodecyl sulphate	3.9 mg/m ³
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	$0.6 \ mg/m^3$
6381-92-6	EDTA disodium dihydrate	30 mg/m ³
13721-39-6	Trisodium orthovanadate	0.016 mg/m
7681-49-4	sodium fluoride	17 mg/m³
PAC-2:		
56-81-5	glycerol	180 mg/m ³
7365-45-9	HEPES Free Acid	330 mg/m ³
151-21-3	sodium dodecyl sulphate	43 mg/m ³
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	6.6 mg/m ³
	EDTA disodium dihydrate	330 mg/m ³
13721-39-6	Trisodium orthovanadate	0.18 mg/m
7681-49-4	sodium fluoride	90 mg/m ³
PAC-3:		
56-81-5	glycerol	1,100 mg/m
7365-45-9	HEPES Free Acid	2,000 mg/m ²
151-21-3	sodium dodecyl sulphate	260 mg/m ³
	5-chloro-2-methyl-2H-isothiazol-3-one	40 mg/m ³
	EDTA disodium dihydrate	2,000 mg/m
13721-39-6	Trisodium orthovanadate	130 mg/m ³
7681-40-4	sodium fluoride	$1,100 \text{ mg/m}^3$

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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· 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 containers: No special requirements.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

• Storage class: 10

• 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 limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

56-81-5 glycerol (2.5-10%)

PEL Long-term value: 15* 5** mg/m³

mist; *total dust **respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

· Exposure controls

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

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material

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

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Tightly sealed goggles

9 Physical and chemical properties

General Information Appearance:		
Form:	Fluid	
Color:	According to product specification	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	N/A	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	160 °C (320 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto igniting:	400 °C (752 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	10.0 %	
Water:	81.8 %	
VOC content:	0.00 %	

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Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- 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: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

151-21-3 sodium dodecyl sulphate

Oral LD50 1,288 mg/kg (rat)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7681-49-4 sodium fluoride

· NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 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.

• Ecotoxical effects: N/A

- · Remark: Very toxic for fish
- Other information: N/A

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· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

• Uncleaned packagings:

• *Recommendation: Disposal must be made according to official regulations.*

UN-Number	
ADR, IMDG, IATA	UN3082
UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
IMDG	LIQUID, N.O.S. (CYANOGEN BROMIDE)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII N.O.S. (CYANOGEN BROMIDE), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (CYANOGEN BROMIDE)
Transport hazard class(es)	
ADR, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
ADR, IMDG, IATA	111
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR): Special marking (LATA):	Symbol (fish and tree) Symbol (fish and tree)
Special marking (IATA):	
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Hazard identification number (Kemler code): EMS Number:	F-A,S-F
Segregation groups	(SGG6) Cyanides
Stowage Category	A
Transport in bulk according to Annex II of	
Transport in duik according to Annex II of	

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• Transport/Additional information:	(Contd. of page
· <i>ADR</i>	
· Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (CYANOGEN BROMIDE), 9, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

,	(extremely hazardous substances):	
	ngredients is listed.	
,	(Specific toxic chemical listings):	
None of the in	ngredients is listed.	
· TSCA (Toxic	e Substances Control Act):	
7732-18-5	Water	ACTIV
56-81-5	glycerol	ACTIV
9002-93-1	Polyethylene glycol octylphenol ether	ACTIV
7365-45-9	HEPES Free Acid	ACTIV
151-21-3	sodium dodecyl sulphate	ACTIV
26172-55-4.	5-chloro-2-methyl-2H-isothiazol-3-one	ACTIV
67-42-5	ethylenebis(oxyethylenenitrilo)tetra(aceticacid)	ACTIV
13721-39-6	Trisodium orthovanadate	ACTIV
7681-49-4	sodium fluoride	ACTIV
· Hazardous A	ir Pollutants	
None of the in	ngredients is listed.	
• Proposition (55	
· Chemicals kr	nown to cause cancer:	
None of the in	ngredients is listed.	
· Chemicals kr	nown to cause reproductive toxicity for females:	
None of the in	ngredients is listed.	
· Chemicals kr	nown to cause reproductive toxicity for males:	
None of the in	ngredients is listed.	
· Chemicals kr	nown to cause developmental toxicity:	
None of the in	ngredients is listed.	
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· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed. TLV (Threshold Limit Value)

7681-49-4 sodium fluoride

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

16 Other information

The information provided in this safety data sheet is based on our current knowledge, and is believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be regarded as a warranty or specification of quality. All materials may present unknown hazards and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist. Revvity, Inc. cannot be held liable for any damage resulting from handling or contact with the product.

· Contact:

• Date of preparation / last revision 02/12/2024

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) 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) 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 OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1