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Safety Data Sheet acc. to OSHA HCS

Printing date 02/20/2024

Reviewed on 05/18/2023

1 Identification

- · Product identifier
- · Trade name: <u>AlphaLISA human BMP-9</u>
- **Product number:** AL3013S
- · 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

Skin Irritation 2H315 Causes skin irritation.Eye Irritation 2AH319 Causes serious eye irritation.Sensitization - Skin 1H317 May cause an allergic skin reaction.Aquatic Acute 2H401 Toxic to aquatic life.Aquatic Chronic 2H411 Toxic to aquatic life with long lasting effects.

• Additional information: For 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
Hazard statements
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.
Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Avoid release to the environment.
Wear protective gloves / eye protection / face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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< 0.1%

Trade name: AlphaLISA human BMP-9

• Classification system: • NFPA ratings (scale 0 - 4)



Health = 2Fire = 0Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:
- 26172-55-4 5-chloro-2-methyl-2H-isothiazol-3-one

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- 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.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:
- Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

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	Reference to other sections		
	7 for information on safe handling.		
	8 for information on personal protection equipment.		
	13 for disposal information. I ction Criteria for Chemicals		
· Protective A	cuon Cruerta for Chemicais		
77-86-1	TRIS	18 mg/m ³	
	hydrochloric acid	1.8 ppm	
	5-chloro-2-methyl-2H-isothiazol-3-one	0.6 mg/m ³	
· PAC-2:			
77-86-1	TRIS	190 mg/m ³	
7647-01-0	hydrochloric acid	22 ppm	
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	6.6 mg/m ³	
· PAC-3:			
77-86-1	TRIS	1,200 mg/m ²	
7647-01-0	hydrochloric acid	100 ppm	
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	40 mg/m^3	

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- 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: 8 B
- 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · 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.

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• *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.

• Eye protection:



Tightly sealed goggles

Information on basic physical and chemical properties					
General Information					
Appearance:	F1 • 1				
Form: Color:	Fluid				
Odor:	According to product specification Characteristic				
Odor: 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:	Not applicable.				
Flammability (solid, gaseous):	Not applicable.				
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)				

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· 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/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	49.0 %	
VOC content:	0.00 %	
Solids content:	5.5 %	
• 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:
- · 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: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7647-01-0 hydrochloric acid

· NTP (National Toxicology Program)

None of the ingredients is listed.

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· 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: Toxic for fish
- Other information: N/A
- · 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 not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· ADR, IMDG, IATA	UN1760
\cdot UN proper shipping name	
ADR	1760 CORROSIVE LIQUID, N.O.S. (CYANOGEN BROMIDI ENVIRONMENTALLY HAZARDOUS
· IMDG, IATA	CORROSIVE LIQUID, N.O.S. (CYANOGEN BROMIDE)
· Transport hazard class(es)	
· ADR	
· Class	8 Corrosive substances

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IMDG, IATA	
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•	
Class	8 Corrosive substances
Label	8
Packing group	
ADR, IMDG, IATA	111
Environmental hazards:	
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code): EMS Number:	
EMS Number: Stowage Category	F-A,S-B A
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
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 1760 CORROSIVE LIQUID, N.O.S. (CYANOGE
-	BROMIDE), 8, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· Sara

• Section 355 (extremely hazardous substances):

7647-01-0 hydrochloric acid

• Section 313 (Specific toxic chemical listings):

7647-01-0 hydrochloric acid

TSCA (Toxic Substances Control Act):

7732-18-5 Water

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9004-54-0	Dextran	ACTIVE
7647-14-5	sodium chloride	ACTIVE
77-86-1	TRIS	ACTIVE
9048-46-8	Bovine Serum Albumin	ACTIVE
7647-01-0	hydrochloric acid	ACTIVE
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	ACTIVE
· Hazardous	Air Pollutants	
7647-01-0	hydrochloric acid	
· Proposition	65	
· Chemicals I	known to cause cancer:	
None of the	ingredients is listed.	
· Chemicals I	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
· Chemicals I	nown to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
· Chemicals I	known to cause developmental toxicity:	
None of the	ingredients is listed.	
· Carcinogen	ic categories	
· EPA (Envir	onmental Protection Agency)	
None of the	ingredients is listed.	
• TLV (Thres	hold Limit Value)	
7647-01-0	hydrochloric acid	A4
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of the	ingredients is listed.	

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 02/20/2024

• 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative (Contd. on page 9)

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NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit 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 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2