# revvity

# 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® HiBlock Buffer 10X</u>, (10 mL)
- **Product number:** AL004C
- · 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 3	H331 Toxic 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	H410 Very 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 Danger

- Hazard-determining components of labeling: Proclin-300
   Hazard statements
- Toxic 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.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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2.5-10%

<1%

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system:

· 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

55965-84-9 Proclin-300

#### 4 First-aid measures

- · Description of first aid measures
- · General information:
- Immediately remove any clothing soiled by the product.
- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for 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.

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	w to enter sewers/ surface or ground water.	
	nd material for containment and cleaning up:	
	h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	ntaminated material as waste according to section 13.	
	equate ventilation.	
	to other sections	
	7 for information on safe handling.	
	a 8 for information on personal protection equipment.	
	1 13 for disposal information.	
	Action Criteria for Chemicals	
• PAC-1:		
7365-45-9	HEPES Free Acid	$30 \text{ mg/m}^3$
77-86-1	TRIS	18 mg/m <sup>3</sup>
· PAC-2:		
7365-45-9	HEPES Free Acid	330 mg/m <sup>3</sup>
77-86-1	TRIS	190 mg/m <sup>3</sup>
• PAC-3:		
7365-45-9	HEPES Free Acid	$2,000 \text{ mg/m}^3$
77-86-1	TRIS	1,200 mg/m <sup>3</sup>
L		

#### 7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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: 6.1 D
- 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.

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Wash hands before breaks and	
Store protective clothing separ	
Avoid contact with the eyes an • <b>Respiratory protection:</b>	a skin.
	ure use an approved cartridge filter. In case of intensive or longer exposure use
SCBA.	are use an approved curritage filler. In case of intensive or longer exposure use
Suitable respiratory protective	device recommended.
• Protection of hands:	
Protective gloves	
	npermeable and resistant to the product/ the substance/ the preparation. on consideration of the penetration times, rates of diffusion and the degradation
The selection of the suitable g varies from manufacturer to n of the glove material can not b	loves does not only depend on the material, but also on further marks of quality and nanufacturer. As the product is a preparation of several substances, the resistance be calculated in advance and has therefore to be checked prior to the application.
• <b>Penetration time of glove mat</b> The exact break through time observed. • <b>Eye protection:</b>	erun the has to be found out by the manufacturer of the protective gloves and has to be
Lyc protection.	
Tightly sealed gogg	rles
9 Physical and chemical p	roperties
-	-
Information on basic physical	l and chemical properties
· General Information	
· Appearance: Form:	Fluid
Color:	According to product specification
· Odor:	Characteristic

• Odor: • Odor threshold:	Not determined.	
· pH-value:	N/A	
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	Undetermined. 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.	
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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	e <b>r):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	75.4 %	
VOC content:	0.00 %	
v o c coment.		
Solids content:	1.0 %	

### 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: Toxic* 

Irritant

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

# 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: Very 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 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	UN2810
· UN proper shipping name	
·ADR	2810 TOXIC LIQUID, ORGANIC, N.O.S. (Proclin-300)
	ENVIRONMENTALLY HAZARDOUS
· IMDG	TOXIC LIQUID, ORGANIC, N.O.S. (Proclin-300), MARIN
	POLLUTANT
· IATA	TOXIC LIQUID, ORGANIC, N.O.S. (Proclin-300)
· Transport hazard class(es)	
· ADR, IMDG	
· Class	6.1 Toxic substances

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	(Contd. of page
Label	6.1
IATA	
Class	6.1 Toxic substances
Label	6.1
Packing group	
ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: Proclin 300
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Toxic substances
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-A
Stowage Category	A SW2 Class of living another
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 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 2810 TOXIC LIQUID, ORGANIC, N.O.S. (PROCLIN-300)
	6.1, 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):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

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	ic Substances Control Act):		
7732-18-5	Water	ACTIVE	
9000-70-8	Gelatins	ACTIVE	
9002-93-1	Polyethylene glycol octylphenol ether	ACTIVE	
9048-46-8	Bovine Serum Albumin	ACTIVE	
7365-45-9	HEPES Free Acid	ACTIVE	
75277-39-3	HEPES Sodium Salt	ACTIVE	
9000-71-9	casein	ACTIVE	
9004-54-0	Dextran	ACTIVE	
7647-14-5	sodium chloride	ACTIVE	
77-86-1	TRIS	ACTIVE	
· Hazardous .	Air Pollutants		
None of the	ingredients is listed.		
· Proposition			
	known to cause cancer:		
None of the ingredients is listed.			
· Chemicals k	· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.			
· Chemicals k	known to cause reproductive toxicity for males:		
None of the	ingredients is listed.		
· Chemicals k	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)		
None of the	ingredients is listed.		
· 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

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# Trade name: AlphaLISA® HiBlock Buffer 10X, (10 mL)

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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	
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 3: Acute toxicity – Category 3	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
<i>Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A</i>	
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	
	UC