02/22/2024	Kit Components
Product code	Description
AL3081F	AlphaLISA FCGR1/CD364 Detection Kit (5000 points)
Components:	
AL347AHV	Human IgG Fc Fragment Acceptor Beads
AL3081S	AlphaLISA Biotinylated Human FCGR1
6760002	Streptavidin Donor Beads
AL004F	AlphaLISA® HiBlock Buffer 10X (100 mL)

revvity

Safety Data Sheet acc. to OSHA HCS

Printing date 02/22/2024

Reviewed on 05/18/2023

1 Identification

- · Product identifier
- Trade name: Human IgG Fc Fragment Acceptor Beads
- · Product number: AL347AHV, AL347AC, AL347AF, AL347AC1
- · 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.

(Contd. on page 2)

us •

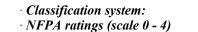
Printing date 02/22/2024

Reviewed on 05/18/2023

(Contd. of page 1)

< 0.1%

Trade name: Human IgG Fc Fragment Acceptor Beads





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.

(Contd. on page 3)

⁻ US

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Human IgG Fc Fragment Acceptor Beads

 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 	(Contd. of page 2)
· PAC-1:	
26172-55-4 5-chloro-2-methyl-2H-isothiazol-3-one	0.6 mg/m^3
7778-77-0 potassium dihydrogenorthophosphate	9.6 mg/m^3
· PAC-2:	
26172-55-4 5-chloro-2-methyl-2H-isothiazol-3-one	$6.6 mg/m^3$
7778-77-0 potassium dihydrogenorthophosphate	110 mg/m ³
· PAC-3:	
26172-55-4 5-chloro-2-methyl-2H-isothiazol-3-one	40 mg/m^3
7778-77-0 potassium dihydrogenorthophosphate	630 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: 12
- 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.
- · 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.

(Contd. on page 4)

JS

(Contd. of page 3)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Human IgG Fc Fragment Acceptor Beads

· 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 o	chemical properties	
General Information		
Appearance: Form:	Fluid	
Color:	According to product specification	
Odor:	<i>Characteristic</i>	
Odor threshold:	Not determined.	
pH-value:	N/A	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
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)	
Density at 20 °C (68 °F):	1 g/cm ³ (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Human IgG Fc Fragment Acceptor Beads

		(Contd. of page 4
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/	water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	99.0 %	
VOC content:	0.00 %	
· 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)

None of the ingredients is listed.

· 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.

(Contd. on page 6)

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Human IgG Fc Fragment Acceptor Beads

- · 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	UN3082
UN proper shipping name ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (CYANOGEN BROMIDE)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIE N.O.S. (CYANOGEN BROMIDE), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIL N.O.S. (CYANOGEN BROMIDE)
Transport hazard class(es)	
ADR, IMDG, IATA	
\mathbb{V} \mathbb{V}	
⊗ ∨ Class	9 Miscellaneous dangerous substances and articles
	9 <i>Miscellaneous dangerous substances and articles</i> 9
Class Label Packing group	0
Label Packing group	0
Label Packing group ADR, IMDG, IATA	9
Label Packing group ADR, IMDG, IATA Environmental hazards: Marine pollutant:	9 III Symbol (fish and tree)
Label Packing group ADR, IMDG, IATA Environmental hazards: Marine pollutant: Special marking (ADR):	9 III Symbol (fish and tree) Symbol (fish and tree)
Label Packing group ADR, IMDG, IATA Environmental hazards: Marine pollutant:	9 III Symbol (fish and tree)

(Contd. of page 5)

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Human IgG Fc Fragment Acceptor Beads

	(Contd. of page
· EMS Number:	F-A,S-F
· Stowage Category	A
• Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
· ADR · Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCI 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

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act): 7732-18-5 Water

26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	ACTIVE
7558-79-4	disodium hydrogenorthophosphate	ACTIVE
7778-77-0	potassium dihydrogenorthophosphate	ACTIVE
7447-40-7	potassium chloride	ACTIVE
7647-14-5	sodium chloride	ACTIVE

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

(Contd. on page 8)

ACTIVE

US -

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Human IgG Fc Fragment Acceptor Beads

(Contd. of page 7)

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• **TLV (Threshold 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 02/22/2024

· 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 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 Eve 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

revvity

Safety Data Sheet acc. to OSHA HCS

Printing date 02/22/2024

Reviewed on 05/18/2023

1 Identification

- · Product identifier
- Trade name: <u>AlphaLISA Biotinylated Human FCGR1</u>
- **Product number:** AL3081S
- · 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.

(Contd. on page 2)

Printing date 02/22/2024

Reviewed on 05/18/2023

(Contd. of page 1)

< 0.1%

Trade name: AlphaLISA Biotinylated Human FCGR1

· 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.

(Contd. on page 3)

⁻ US

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA Biotinylated Human FCGR1

		(Contd. of page 2)
· Reference to	o other sections	
See Section	7 for information on safe handling.	
See Section	8 for information on personal protection equipment.	
	13 for disposal information.	
• Protective A	Action Criteria for Chemicals	
• PAC-1 :		
77-86-1	TRIS	18 mg/m ³
7647-01-0	hydrochloric acid	1.8 ppm
26172-55-4	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 ³
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.

(Contd. on page 4)

US

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA Biotinylated Human FCGR1

· 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 c	chemical properties	
General Information		
Appearance: Form:	Fluid	
Form: Color:	<i>Fulla</i> According to product specification	
Odor:	<i>Characteristic</i>	
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)	

(Contd. of page 3)

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA Biotinylated Human FCGR1

		(Contd. of page 4)
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.

(Contd. on page 6)

3

JS —

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA Biotinylated Human FCGR1

(Contd. of page 5)

· 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

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA Biotinylated Human FCGR1

	(Contd. of page
Label	8
IMDG, IATA	
e e	
Class	8 Corrosive substances
Label	8
Packing group ADR, IMDG, IATA	III
Environmental hazards: Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
EMS Number: Stowage Category	F-A,S-B A
Stowage Calegory Stowage Code	<i>SW2 Clear of living quarters.</i>
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: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
IMDG	51
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 50 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

ACTIVE (Contd. on page 8)

US –

US

Safety Data Sheet acc. to OSHA HCS

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA Biotinylated Human FCGR1

		(Contd. of page 7)
9004-54-0		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	
	hydrochloric acid	
· Proposition		
· Chemicals	known to cause cancer:	
None of the	ingredients is listed.	
· Chemicals	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
· Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
· Chemicals	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 02/22/2024

· 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)

Printing date 02/22/2024

Reviewed on 05/18/2023

(Contd. of page 8)

Trade name: AlphaLISA Biotinylated Human FCGR1

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

revvity

Safety Data Sheet acc. to OSHA HCS

Printing date 02/22/2024

Reviewed on 05/18/2023

1 Identification

- Product identifier
- · Trade name: Streptavidin Donor Beads
- · Product number: 6760002, 6760002B
- · 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

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 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 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.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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

• Classification system:

· NFPA ratings (scale 0 - 4)



Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Streptavidin Donor Beads

(Contd. of page 1)

<0.1%

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
- 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.
- · 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

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.	
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.	
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:	
	30 mg/m
7365-45-9 HEPES Free Acid	85 mg/m
7363-45-9 HEPES Free Acid 9003-53-6 POLYSTYRENE	

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Streptavidin Donor Beads

		(Contd. of page 2)
• PAC-2:		
7365-45-9	HEPES Free Acid	330 mg/m ³
9003-53-6	POLYSTYRENE	550 mg/m ³
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	$6.6 mg/m^3$
• PAC-3:		
7365-45-9	HEPES Free Acid	$2,000 \text{ mg/m}^3$
9003-53-6	POLYSTYRENE	4,700 mg/m ³
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: None.
- Storage class: 12
- 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: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- 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

(Contd. on page 4)

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Streptavidin Donor Beads

· Material of gloves

(Contd. of page 3)

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: Goggles recommended during refilling.*

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:	0 °C (32 °F)	
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)	
Density at 20 °C (68 °F):	1 g/cm ³ (8.345 lbs/gal)	
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:		
Water:	98.3 %	
VOC content:	0.00 %	

Printing date 02/22/2024

Reviewed on 05/18/2023

(Contd. of page 4)

Trade name: Streptavidin Donor Beads

Solids content:

0.6%

• 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: No irritant effect.
- on the eye: No 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)

9003-53-6 POLYSTYRENE

· 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: Toxic for fish
- Other information: N/A
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 6)

3

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Streptavidin Donor Beads

• 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	UN3082
UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
IMDG	LIQUID, N.O.S. (CYANOGEN BROMIDE) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (CYANOGEN BROMIDE), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIL
	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: Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code):	<i>Warning: Miscellaneous dangerous substances and articles</i>
EMS Number:	F-A,S-F
Segregation groups	(SGG6) Cyanides
Stowage Category	A
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.

(Contd. of page 5)

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Streptavidin Donor Beads

	(Contd. of page e
• Transport/Additional information:	
· 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
\cdot Excepted quantities ($\widetilde{E}Q$)	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

None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
7732-18-5 Water	ACTIVI
7365-45-9 HEPES Free Acid	ACTIVI
7647-14-5 sodium chloride	ACTIVI
9003-53-6 POLYSTYRENE	ACTIVI
26172-55-4 5-chloro-2-methyl-2H-isothiazol-3-one	ACTIVI
Hazardous Air Pollutants	
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
None of the ingreatents is tisted.	
Carcinogenic categories	
Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed.	

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: Streptavidin Donor Beads

(Contd. of page 7)

• TLV (Threshold 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 02/22/2024 · 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 NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit 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

revvity

Safety Data Sheet acc. to OSHA HCS

Printing date 02/22/2024

Reviewed on 05/18/2023

1 Identification

- · Product identifier
- · Trade name: <u>AlphaLISA® HiBlock Buffer 10X (100 mL)</u>
- **Product number:** AL004F
- · 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. the wording of the listed H phrases refer to section 16.
	the wording of the listed 11 phrases refer to section 10.

· 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.

(Contd. on page 2)

[—] ÚS

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® HiBlock Buffer 10X (100 mL)

(Contd. of page 1)

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.

(Contd. on page 3)

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® HiBlock Buffer 10X (100 mL)

• Methods a. Absorb wit Dispose co Ensure ade • Reference See Section See Section See Section	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 a 7 for information on safe handling. a 8 for information on personal protection equipment. a 13 for disposal information. Action Criteria for Chemicals	(Contd. of page 2)
• PAC-1:		
7365-45-9	HEPES Free Acid	30 mg/m ³
77-86-1	TRIS	18 mg/m ³
· PAC-2:		
7365-45-9	HEPES Free Acid	330 mg/m ³
77-86-1	TRIS	190 mg/m ³
· PAC-3:		
7365-45-9	HEPES Free Acid	$2,000 \text{ mg/m}^3$
77-86-1	TRIS	1,200 mg/m ³

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.*

(Contd. on page 4)

US

US

Safety Data Sheet acc. to OSHA HCS

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® HiBlock Buffer 10X (100 mL)

<text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	
Store protective clothing separately. Avoid contact with the eyes and skin. • Repiratory 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: • 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 gloce material on 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 selection: • Experiment of glove material The seact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Experiment. • Experiment. • Experiment. • Experiment. • Experiment. • Information on basic physical and chemical properties • General Information	
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:	
 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 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 Methad 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. Experimention: Potysical and chemical properties Information on basic physical and chemical properties General Information	
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:	
 SCBA. Suitable respiratory protective device recommended. Protection of hands: <i>Protection of hands:</i> <i>Protective gloves</i> 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 <i>Material of gloves</i> 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 manufacture. 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. <i>Penetration time of glove material</i> The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. <i>Eye protection:</i> <i>Pightly sealed goggles</i> <i>Information on basic physical and chemical properties</i> <i>General Information</i> 	
 Protection of hands: <i>Protective gloves</i> 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 Physical and chemical properties information on basic physical and chemical properties General Information 	
 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. Fy protection: Perpotection: Penysical and chemical properties Information on basic physical and chemical properties General Information 	
 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 9 Physical and chemical properties Information on basic physical and chemical properties General Information 	· Protection of hands:
 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 9 Physical and chemical properties Information on basic physical and chemical properties General Information 	
 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 9 Physical and chemical properties Information on basic physical and chemical properties General Information 	Protective gloves
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: Dightly sealed goggles 9 Physical and chemical properties Information on basic physical and chemical properties General Information	
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: Dightly sealed goggles 9 Physical and chemical properties Information on basic physical and chemical properties General Information	
 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 9 Physical and chemical properties Information on basic physical and chemical properties 	
 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 9 Physical and chemical properties General Information 	
 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 9 Physical and chemical properties Information on basic physical and chemical properties General Information 	
 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 9 Physical and chemical properties General Information 	
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 9 Physical and chemical properties • Information on basic physical and chemical properties • General Information	of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 observed. Eye protection: Tightly sealed goggles 9 Physical and chemical properties Information on basic physical and chemical properties General Information 	
 Eye protection: Tightly sealed goggles 9 Physical and chemical properties • Information on basic physical and chemical properties General Information 	
Physical and chemical properties • Information on basic physical and chemical properties • General Information	
9 Physical and chemical properties • Information on basic physical and chemical properties • General Information	Eye protection:
9 Physical and chemical properties • Information on basic physical and chemical properties • General Information	
 Information on basic physical and chemical properties General Information 	Tightly sealed goggles
 Information on basic physical and chemical properties General Information 	
 Information on basic physical and chemical properties General Information 	
 Information on basic physical and chemical properties General Information 	
· General Information	9 Physical and chemical properties
· General Information	Information on basis abusis of and showing anon outing
	· Appearance:

Fluid	
According to product specification	
Characteristic	
Not determined.	
N/A	
100 °C (212 °F)	
Not applicable.	
Not applicable.	
Not determined.	
Product is not selfigniting.	
Product does not present an explosion hazard.	
Not determined.	
	According to product specification Characteristic Not determined. N/A Undetermined. 100 °C (212 °F) Not applicable. Not applicable. Not applicable. Not determined. Product is not selfigniting. Product does not present an explosion hazard.

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® HiBlock Buffer 10X (100 mL)

	(Contd. of	page
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 r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	75.4 %	
VOC content:	0.00 %	
, o e contenti		
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.

(Contd. on page 6)

US -

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® HiBlock Buffer 10X (100 mL)

(Contd. of page 5)

· 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
\cdot UN proper shipping name	
ADR	2810 TOXIC LIQUID, ORGANIC, N.O.S. (Proclin-30 Polyethylene glycol octylphenol ether), ENVIRONMENTALI HAZARDOUS
·IMDG	TOXIC LIQUID, ORGANIC, N.O.S. (Proclin-300, Polyethyle glycol octylphenol ether), MARINE POLLUTANT
· IATA	TOXIC LIQUID, ORGANIC, N.O.S. (Proclin-300, Polyethyle glycol octylphenol ether)
· Transport hazard class(es)	
· ADR, IMDG	
· Class	6.1 Toxic substances

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® HiBlock Buffer 10X (100 mL)

	(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: · Stowage Category	F-A,S-A 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: 60 L On cargo aircraft only: 220 L
· ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L C l Fl
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 50 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (PROCLIN-300 POLYETHYLENE GLYCOL OCTYLPHENOL ETHER), 6.1, IL 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.

(Contd. on page 8)

US

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® HiBlock Buffer 10X (100 mL)

		(Contd. of page 7)			
• TSCA (Toxic Substanc	es Control Act):				
7732-18-5 Water		ACTIVE			
9000-70-8 Gelatins		ACTIVE			
9002-93-1 Polyethyle	ne glycol octylphenol ether	ACTIVE			
9048-46-8 Bovine Ser	um Albumin	ACTIVE			
7365-45-9 HEPES Fr	ee Acid	ACTIVE			
75277-39-3 HEPES So	dium Salt	ACTIVE			
9000-71-9 casein		ACTIVE			
9004-54-0 Dextran		ACTIVE			
7647-14-5 sodium chi	oride	ACTIVE			
77-86-1 TRIS		ACTIVE			
· Hazardous Air Polluta	nts				
None of the ingredients is listed.					
· Proposition 65					
· Chemicals known to ca	· Chemicals known to cause cancer:				
None of the ingredients is listed.					
· Chemicals known to ca	· Chemicals known to cause reproductive toxicity for females:				
None of the ingredients is listed.					
· Chemicals known to ca	· Chemicals known to cause reproductive toxicity for males:				
None of the ingredients is listed.					
· Chemicals known to ca	· Chemicals known to cause developmental toxicity:				
None of the ingredients	None of the ingredients is listed.				
· Carcinogenic categorie	\$				
· EPA (Environmental P	rotection Agency)				
None of the ingredients	None of the ingredients is listed.				
• TLV (Threshold 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 02/22/2024

• 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

(Contd. on page 9)

US

Printing date 02/22/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® HiBlock Buffer 10X (100 mL)

	(Contd. of page 8)
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	