02/16/2024	Kit Components
Product code	Description
AL220F	AlphaLISA IL1b Detection Kit (5000 points)
Components:	
AL220AF	AlphaLISA® anti-IL1ß Acceptor Beads (500 µL)
AL220BF	AlphaLISA® Biotinylated Antibody Anti-IL1B (500 µL)
6760002S	Streptavidin Donor Beads
AL000F	AlphaLISA® Immunoassay Buffer, 10X (100 mL)
AL220S	AlphaLISA® human IL1ß (0.1 µg)

# revvity

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/16/2024

Reviewed on 05/18/2023

# **1** Identification

- · Product identifier
- · Trade name: AlphaLISA® anti-IL1β Acceptor Beads (500 μL)
- **Product number:** AL220AF
- · 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: Proclin-300
  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 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® anti-IL1β Acceptor Beads (500 μL)

(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:

55965-84-9 Proclin-300

### 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:	
7778-77-0 potassium dihydrogenorthophosphate	9.6 mg/n
PAC-2:	
7778-77-0 potassium dihydrogenorthophosphate	110 mg/n

Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® anti-IL1β Acceptor Beads (500 μL)

(Contd. of page 2)

 $\overline{630} \text{ mg/m}^3$ 

• *PAC-3*:

7778-77-0 potassium dihydrogenorthophosphate

# 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 · *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.

(Contd. on page 4)

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Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® anti-IL1ß Acceptor Beads (500 µL)

• *Eye protection: Goggles recommended during refilling.* 

9 Physical and chemical proper	ties	
• Information on basic physical and c • General Information	chemical properties	
· Appearance: Form:	Fluid	
Form: 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 <sup>3</sup> (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	e <b>r):</b> Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	98.5 %	
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.

(Contd. of page 3)

Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® anti-IL1β Acceptor Beads (500 μL)

(Contd. of page 4)

- 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.
- $\cdot$  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.
- 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.* 

(Contd. on page 6)

US

Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® anti-IL1β Acceptor Beads (500 μL)

(Contd. of page 5)

US

· Uncleaned packagings:

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

4 Transport information		
· UN-Number · ADR, ADN, IMDG, IATA	not regulated	
· UN proper shipping name · ADR, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· Packing group · ADR, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex A MARPOL 73/78 and the IBC Code	II of Not applicable.	
· UN "Model Regulation":	not regulated	

# 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	ACTIVE
7647-14-5 sodium chloride	ACTIVE
7558-79-4 disodium hydrogenorthophosphate	ACTIVE
7447-40-7 potassium chloride	ACTIVE
7778-77-0 potassium dihydrogenorthophosphate	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.	

Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® anti-IL1β Acceptor Beads (500 μL)

(Contd. of page 6)

• 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.

· 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 02/16/2024

· 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

US –

# revvity

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/16/2024

Reviewed on 05/18/2023

# **1** Identification

- · Product identifier
- · Trade name: <u>AlphaLISA® Biotinylated Antibody Anti-IL1β (500 μL)</u>
- **Product number:** AL220BF
- · 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
- The product has been classified and is not hazadous according to the Globally Harmonized System (GHS).
- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- Hazard statements Void
- 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: Void

# 4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: If skin irritation continues, consult a doctor.
- · 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.

(Contd. on page 2)

Printing date 02/16/2024

Reviewed on 05/18/2023

(Contd. of page 1)

Trade name: AlphaLISA® Biotinylated Antibody Anti-IL1β (500 μL)

• *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: No special measures required.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 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:		
7778-77-0	potassium dihydrogenorthophosphate	9.6 mg/m <sup>3</sup>
26628-22-8	sodium azide	$0.026 \text{ mg/m}^3$
· PAC-2:		
7778-77-0	potassium dihydrogenorthophosphate	110 mg/m <sup>3</sup>
26628-22-8	sodium azide	$0.29 mg/m^3$
· PAC-3:		
7778-77-0	potassium dihydrogenorthophosphate	$630 \text{ mg/m}^3$
26628-22-8	sodium azide	$5.3 mg/m^3$

# 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · 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.

(Contd. on page 3)

Printing date 02/16/2024

### Reviewed on 05/18/2023

Trade name: AlphaLISA® Biotinylated Antibody Anti-IL1β (500 μL)

(Contd. of page 2)

### 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:
- The usual precautionary measures for handling chemicals should be followed.
- **Respiratory protection:** Not required.
- · 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: Goggles recommended during refilling.

Information on basic physical and of General Information	cnemicai properties	
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: Boiling point/Boiling range:	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.	
	Not determined.	

Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® Biotinylated Antibody Anti-IL1β (500 μL)

		(Contd. of page 3
· 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	/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	90.0 %	
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: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### · 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 5)

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Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® Biotinylated Antibody Anti-IL1β (500 μL)

(Contd. of page 4)

· 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
- 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:* Smaller quantities can be disposed of with household waste. Must be specially treated adhering to official regulations.
- Uncleaned packagings:
- *Recommendation: Disposal must be made according to official regulations.*

UN-Number ADR, ADN, IMDG, IATA	not regulated	
UN proper shipping name ADR, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	not regulated	
Packing group ADR, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	

Printing date 02/16/2024

Reviewed on 05/18/2023

(Contd. of page 5)

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Trade name: AlphaLISA® Biotinylated Antibody Anti-IL1β (500 μL)

• UN "Model Regulation":

not regulated

# 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):
---------------	------------	-----------	--------------

26628-22-8 sodium azide

• Section 313 (Specific toxic chemical listings):

26628-22-8 sodium azide

 • TSCA (Toxic Substances Control Act):

 7732-18-5
 Water

7647-14-5sodium chloride7558-79-4disodium hydrogenorthophosphate7447-40-7potassium chloride7778-77-0potassium dihydrogenorthophosphate9005-64-5Polysorbate 20

26628-22-8 sodium azide

· 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.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

26628-22-8 sodium azide

·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

(Contd. on page 7)

A4

Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® Biotinylated Antibody Anti-IL1β (500 μL)

(Contd. of page 6) 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.	)
<ul> <li>Contact:</li> <li>Date of preparation / last revision 02/16/2024</li> <li>Abbreviations and acronyms:</li> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Air Transport Association</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>VOC: Volatile Organic Compounds (USA, EU)</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> <li>NIOSH: National Institute for Occupational Safety</li> <li>OSHA: Occupational Safety &amp; Health</li> <li>TLV: Threshold Limit Value</li> </ul>	1
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	

# revvity

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/16/2024

Reviewed on 05/18/2023

# **1** Identification

- · Product identifier
- · Trade name: Streptavidin Donor Beads
- · Product number: 6760002S, 6760002S2
- · 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)

 $\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \bullet \\$ 

Printing date 02/16/2024

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

Linnonine	ecautions, protective equipment and emergency procedures Not required. ntal precautions:	
Do not allo	v product to reach sewage system or any water course.	
Inform resp	ective authorities in case of seepage into water course or sewage system.	
	d material for containment and cleaning up:	
Absorb with	liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose cor	taminated material as waste according to section 13.	
Ensure adea	nuate ventilation.	
· Reference t	o 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 A	Action Criteria for Chemicals	
• PAC-1:		30 mg/m
• PAC-1:	HEPES Free Acid	50 mg/m
• <b>PAC-1:</b> 7365-45-9	HEPES Free Acid POLYSTYRENE	85 mg/m

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Trade name: Streptavidin Donor Beads

		(Contd. of page 2)
• PAC-2:		
7365-45-9	HEPES Free Acid	330 mg/m <sup>3</sup>
9003-53-6	POLYSTYRENE	550 mg/m <sup>3</sup>
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	$6.6 \text{ mg/m}^3$
• PAC-3:		
7365-45-9	HEPES Free Acid	$2,000 \text{ mg/m}^3$
9003-53-6	POLYSTYRENE	4,700 mg/m <sup>3</sup>
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	40 mg/m <sup>3</sup>

# 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)

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### 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/cm³ (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:	98.2 %		
VOC content:	0.00 %		

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(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

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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
Impo	N.O.S. (CYANOGEN BROMIDE), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI
	N.O.S. (CYANOGEN BROMIDE)
Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles
	y
Packing group ADR, IMDG, IATA	111
	111
Environmental hazards: Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATÁ):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-F
Segregation groups	(SGG6) Cyanides
Stowage Category	A
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.

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Reviewed on 05/18/2023

Trade name: Streptavidin Donor Beads

	(Contd. of page
• 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
Excepted quantities $(EQ)$	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (CYANOGEN BROMIDE), 9, III

# 15 Regulatory information

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

· Sara

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.	

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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 02/16/2024 · 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 02/16/2024

Reviewed on 05/18/2023

# **1** Identification

- · Product identifier
- · Trade name: <u>AlphaLISA® Immunoassay Buffer</u>, 10X (100 mL)
- **Product number:** AL000F
- · 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: 5-chloro-2-methyl-2H-isothiazol-3-one • 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)

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Trade name: AlphaLISA® Immunoassay 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

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.
- 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)

US

Printing date 02/16/2024

Reviewed on 05/18/2023

### Trade name: AlphaLISA® Immunoassay Buffer, 10X (100 mL)

		(Contd. of page 2)
	plenty of water.	
• Methods an	d material for containment and cleaning up:	
Absorb with	<i>liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).</i>	
Dispose con	taminated material as waste according to section 13.	
	uate ventilation.	
	o other sections	
	7 for information on safe handling.	
	8 for information on personal protection equipment.	
	13 for disposal information.	
	ction Criteria for Chemicals	
· PAC-1:	5	
7365-45-9	HEPES Free Acid	30 mg/m <sup>3</sup>
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	$0.6 mg/m^3$
77-86-1	TRIS	18 mg/m³
· PAC-2:		
7365-45-9	HEPES Free Acid	330 mg/m <sup>3</sup>
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	$6.6 mg/m^3$
77-86-1	TRIS	190 mg/m <sup>3</sup>
· PAC-3:		
7365-45-9	HEPES Free Acid	$2,000 \text{ mg/m}^3$
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	$40 \text{ mg/m}^3$
77-86-1	TRIS	1,200 mg/m <sup>3</sup>

# 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.

(Contd. on page 4)

US -

Printing date 02/16/2024

Reviewed on 05/18/2023

#### Trade name: AlphaLISA® Immunoassay Buffer, 10X (100 mL)

(Contd. of page 3)

· 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. Store protective clothing separately. Avoid contact with the eyes and skin. · Respiratory protection: In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA. Suitable respiratory protective device recommended. **Protection of hands:** Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

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

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

• Eye protection:

Tightly sealed goggles

Information on basic physical and General Information Appearance:	chemical properties	
Form:	Fluid	
Color:	According to product specification	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	N/A	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	

Printing date 02/16/2024

Reviewed on 05/18/2023

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

		(Contd. of page
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	85.4 %	
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:
- $\cdot$  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

(Contd. on page 6)

US

Printing date 02/16/2024

Reviewed on 05/18/2023

#### Trade name: AlphaLISA® Immunoassay Buffer, 10X (100 mL)

(Contd. of page 5)

· 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.
- · 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · ADR, IMDG, IATA	UN3287
· UN proper shipping name	
$\cdot ADR$	3287 TOXIC LIQUID, INORGANIC, N.O.S. (CYANOGE
	BROMIDE), ENVIRONMENTALLY HAZARDOUS
·IMDG	TOXIC LIQUID, INORGANIC, N.O.S. (CYANOGEN BROMIDE
	MARINE POLLUTANT
·IATA	TOXIC LIQUID, INORGANIC, N.O.S. (CYANOGEN BROMIDE

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

	(Contd. of page
Transport hazard class(es)	
ADR, IMDG	
- Class	6.1 Toxic substances
Label	6.1
IATA	
6	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group	
ADR, IMDG, IATA	III
· Environmental hazards:	Product contains environmentally hazardous substances: 5 chloro-2-methyl-2H-isothiazol-3-one
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
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: El Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	1 ,1 1 0 0
· Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (CYANOGE BROMIDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

(Contd. on page 8)

Printing date 02/16/2024

Reviewed on 05/18/2023

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

(Contd. of page 7)

	-		
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гэ кеуш			

• 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):

All components have the value 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.

· 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 02/16/2024

• 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

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Printing date 02/16/2024

Reviewed on 05/18/2023

# Trade name: AlphaLISA® Immunoassay Buffer, 10X (100 mL)

	(Contd. of page 8)
EINECS: European Inventory of Existing Commercial Chemical Substances	( 10-)
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	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	

# revvit

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/16/2024

Reviewed on 05/18/2023

# **1** Identification

- · Product identifier
- · Trade name: AlphaLISA® human IL1β (0.1 μg)
- · Product number: AL220S
- · 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 2 H315 Causes skin irritation. Eve Damage 1 H318 Causes serious eye damage. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Aquatic Acute 1 H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Aquatic Chronic 1

• 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: hvdrochloric acid Proclin-300 · Hazard statements Causes skin irritation. Causes serious eye damage. 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 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse.

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US

Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® human IL1β (0.1 μg)

(Contd. of page 1)

1-2.5%

<1%

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

· NFPA ratings (scale 0 - 4)



Health = 3Fire = 0 Reactivity = 0

# 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

### · Dangerous components:

7647-01-0 hydrochloric acid

55965-84-9 Proclin-300

# 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. Then 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 Wear protective equipment. Keep unprotected persons away.
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: Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

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US

Printing date 02/16/2024

Reviewed on 05/18/2023

### Trade name: AlphaLISA® human IL1β (0.1 μg)

• <b>Reference</b> See Section See Section See Section	quate ventilation. to other sections 27 for information on safe handling. 28 for information on personal protection equipment. 21 for disposal information. Action Criteria for Chemicals	(Contd. of page 2)		
• PAC-1:				
77-86-1	TRIS	18 mg/m <sup>3</sup>		
7647-01-0	hydrochloric acid	1.8 ppm		
· PAC-2:				
77-86-1	TRIS	190 mg/m <sup>3</sup>		
7647-01-0	hydrochloric acid	22 ppm		
· PAC-3:				
77-86-1	TRIS	1,200 mg/m <sup>3</sup>		
7647-01-0	hydrochloric acid	100 ppm		

### 7 Handling and storage

· Handling:

· Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

· 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: 11

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

· Control parameters

Components with limit values that require monitoring at the workplace:

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

At this time, the remaining constituent has no known exposure limits.

### 7647-01-0 hydrochloric acid (1-2.5%)

PEL Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm

*REL Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm* 

TLV Ceiling limit value: 2 ppm

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US –

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Reviewed on 05/18/2023

Trade name: AlphaLISA® human IL1ß (0.1 µg)

(Contd. of page 3)

· 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 skin. Avoid contact with the eyes and skin. · Respiratory protection: In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA. Suitable respiratory protective device recommended. **Protection of hands:** Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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

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

Eye protection:

Tightly sealed goggles

Information on basic physical and	chemical properties	
General Information		
Appearance: Form:	Solid	
Color:	According to product specification	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	N/A	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Decomposition temperature:	Not determined.	

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Reviewed on 05/18/2023

Trade name: AlphaLISA® human IL1β (0.1 μg)

		(Contd. of page
· 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:	Not applicable.	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wa	<b>iter):</b> Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Water:	32.4 %	
VOC content:	0.00 %	
Solids content:	8.8 %	
• Other information	No further relevant information available.	

# 10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

7647-01-0 hydrochloric acid

Oral LD50 900 mg/kg (rabbit)

• Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Strong irritant with the danger of severe eye injury.

• Sensitization: Sensitization possible through skin contact.

• Additional toxicological information:

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

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Trade name: AlphaLISA® human IL1β (0.1 μg)

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.

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 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, ADN, IMDG, IATA	not regulated	
· UN proper shipping name		
· ADR, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	not regulated	
· Packing group		
· ADR, IMDG, IATA	not regulated	

ACTIVE

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/16/2024

Reviewed on 05/18/2023

Trade name: AlphaLISA® human IL1β (0.1 μg)

		(Contd. of page 6)
• Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
· UN "Model Regulation":	not regulated	

# 15 Regulatory information

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

· Sara

· Section 35	5 (extremely hazardous substances):
7647-01-0	hydrochloric acid
· Section 31	3 (Specific toxic chemical listings):
7647-01-0	hydrochloric acid
· TSCA (To	xic Substances Control Act):
9004-54-0	Dextran
7732-18-5	Water

7732-18-5	Water	ACTIVE
7647-14-5	sodium chloride	ACTIVE
77-86-1	TRIS	ACTIVE
7647-01-0	hydrochloric acid	ACTIVE
9048-46-8	Bovine Serum Albumin	ACTIVE
· Hazardous Air Pollutants		

7647-01-0 hydrochloric acid

· 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.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

7647-01-0 hydrochloric acid

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

None of the ingredients is listed.

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A4

Printing date 02/16/2024

#### Reviewed on 05/18/2023

Trade name: AlphaLISA® human IL1β (0.1 μg)

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

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### 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 02/16/2024

• Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 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