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Safety Data Sheet acc. to OSHA HCS

Printing date 02/13/2024

Reviewed on 05/18/2023

1 Identification

- · Product identifier
- · Trade name: VASOACTIVE INTESTINAL POLYPEPTIDE (HUMAN, PORCINE, RAT), [1251]-
- · Product number: NEX192000MC, NEX192010UC
- · 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.

Eye Damage 1 H318 Causes serious eye damage.

• *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: triethylamine phosphoric acid*
- · Hazard statements
- Causes skin irritation.
- Causes serious eye damage.
- · Precautionary statements

Wear 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.
- Immediately call a poison center/doctor.
- Specific treatment (see on this label).
- Take off contaminated clothing and wash it before reuse.
- If skin irritation occurs: Get medical advice/attention.
- Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 0 Reactivity = 0

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2.5-10% 2.5-10% <1%

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous	s components:
7664-38-2	phosphoric acid
121-44-8	triethylamine
9087-70-1	Aprotinin

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: 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 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). Use neutralizing agent. Dispose contaminated material as waste according to section 13. **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: 7664-38-2 phosphoric acid $3 mg/m^3$ 121-44-8 triethylamine 1 ppm PAC-2: 7664-38-2 phosphoric acid 30 mg/m^3 (Contd. on page 3)

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121-44-8 triethylamine	(Contd. of page 2) <i>170 ppm</i>
• PAC-3:	
7664-38-2 phosphoric acid	$150 mg/m^3$
121-44-8 triethylamine	1,000 ppm

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Store in cool, dry place in tightly closed receptacles.
- No special precautions are necessary if used correctly.
- 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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

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

7664	1-38-2 phosphoric acid (2.5-10%)
PEL	Long-term value: 1 mg/m ³
REL	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
TLV	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
121-	44-8 triethylamine (2.5-10%)
PEL	Long-term value: 100 mg/m ³ , 25 ppm
TLV	Short-term value: 1 ppm Long-term value: 0.5 ppm Skin, A4
· Pers · Gen Keep Imm Was Avoi Avoi	osure controls onal protective equipment: eral protective and hygienic measures: o away from food and beverages. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. d contact with the skin. d contact with the eyes and skin.

· Respiratory protection: Suitable respiratory protective device recommended.

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· 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

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etermined.
ct is not selfigniting.
ct does not present an explosion hazard.
etermined.

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		(Contd. of page 4)
• Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octand	ol/water): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: VOC content:	3.80 %	
Solids content:	82.7 %	
• 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:

121-44-8 triethylamine

Oral LD50 460 mg/kg (rat)

Dermal LD50 570 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: No sensitizing effects known.

• 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.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- *Aquatic toxicity:* No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Ecotoxical effects: N/A
- 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	UN3267
· UN proper shipping name · ADR	3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.
· IMDG, IATA	(TRIETHYLAMINE, PHOSPHORIC ACID, SOLUTION) CORROSIVE LIQUID, BASIC, ORGANIC, N.O. (TRIETHYLAMINE, PHOSPHORIC ACID, SOLUTION)
· Transport hazard class(es)	
· ADR, IMDG, IATA	
and the second s	
· Class	8 Corrosive substances
· Label	8
· Packing group	
ADR, IMDG, IATA	111

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	(Contd. of page
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	: 80
EMS Number:	F-A,S-B
Segregation groups	(SGG18) Alkalis
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.
	(TRIETHYLAMINE, PHOSPHORIC ACID, SOLUTION), 8, 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):	
7664-38-2 phosphoric acid	
121-44-8 triethylamine	
TSCA (Toxic Substances Control Act):	
56-40-6 Glycine	ACTI
7647-14-5 sodium chloride	ACTI
7558-79-4 disodium hydrogenorthophosphate	ACTI
7664-38-2 phosphoric acid	ACTI
121-44-8 triethylamine	ACTI
9048-46-8 Bovine Serum Albumin	ACTI
Hazardous Air Pollutants	
121-44-8 triethylamine	

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A4

· Proposition 65

· Chemicals known to cause cancer:

56-40-6 Glycine

Radionuclide

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)

121-44-8 triethylamine

· 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.

<u>16</u> 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 02/13/2024

- · 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