

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 07.03.2024

Version No: 1.00

Revision: 07.03.2024

### 1 Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Please refer to attached coversheet for the exact product list

**Trade name:** HighSpec Rho-1D4 Peptide

**Relevant identified uses of the substance or mixture and uses advised against**

**Application of the substance / the preparation:** Protein purification

**Uses advised against:** No further relevant information available.

#### Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

Cube Biotech GmbH  
Creative-Campus-Allee 12  
40789 Monheim  
Tel.: +49 (0) 2173 99373 0  
E-mail: [contact@cube-biotech.com](mailto:contact@cube-biotech.com)

**Emergency telephone number:** +49 (0) 2173 99373 0 (during business hours)

### 2 Hazards identification

#### Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

The substance is not classified, according to the CLP regulation.

#### Label elements

**Labelling according to Regulation (EC) No 1272/2008** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

#### Other hazards

**Results of PBT and vPvB assessment**

**PBT:** Not determined.

**vPvB:** Not determined.

### 3 Composition/information on ingredients

#### Substances

CAS No.	Description
	Rho-1D4 peptide

### 4 First aid measures

#### Description of first aid measures

##### General information:

No special measures required.

If symptoms persist consult doctor.

**After inhalation:** Supply fresh air.

**After skin contact:** Generally the product does not irritate the skin.

##### After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

**After swallowing:** Rinse mouth.

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**5 Firefighting measures****Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

**Advice for firefighters****Protective equipment:** Wear self-contained respiratory protective device.**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Wear protective clothing.

Avoid formation of dust.

Keep away from ignition sources.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the material collected according to regulations.

**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.

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**7 Handling and storage****Precautions for safe handling**

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

Ensure good ventilation/exhaustion at the workplace.

**Information about fire and explosion protection:**

Dust can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Store away from oxidising agents.**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.**Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

### Control parameters

#### Ingredients 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

**Appropriate engineering controls** No further data; see section 7.

#### Individual protection measures, such as personal protective equipment

##### General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not necessary if room is well-ventilated.

##### Hand protection

Protective gloves and protective skin cream

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.

##### 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/face protection** Safety glasses

**Body protection:** Protective work clothing

**Environmental exposure controls** No further relevant information available.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Physical state

Solid

##### Form:

Crystalline powder

##### Colour:

White

##### Odour:

Odourless

##### Odour threshold:

Not determined.

##### Melting point/freezing point:

Not determined.

##### Boiling point or initial boiling point and boiling range

Not applicable.

##### Flammability

Not determined.

##### Lower and upper explosion limit

##### Lower:

Not applicable.

##### Upper:

Not applicable.

##### Flash point:

Not determined.

##### Auto-ignition temperature:

Not determined.

##### Decomposition temperature:

Not determined.

##### pH

Not applicable.

##### Viscosity:

##### Kinematic viscosity

Not applicable.

##### Dynamic:

Not applicable.

##### Solubility

##### water:

Soluble.

**Partition coefficient n-octanol/water (log value)** Not determined.

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<b>Vapour pressure:</b>	Not applicable.
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined.
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Relative gas density</b>	Not applicable.
<b>Particle characteristics</b>	See section 3.
<b>Other information</b>	
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Oxidising properties</b>	No
<b>Evaporation rate</b>	Not applicable.

### 10 Stability and reactivity

**Reactivity** No further relevant information available.

**Chemical stability** No decomposition if used and stored according to specifications.

**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 hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity** Based on available data, the classification criteria are not met.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Information on other hazards**

**Endocrine disrupting properties** Substance is not listed.

### 12 Ecological information

**Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Results of PBT and vPvB assessment** Not determined.

**Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.

**Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

#### Waste treatment methods

**Recommendation:** Must be specially treated adhering to official regulations.

#### Uncleaned packaging

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

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

UN number or ID number ADR/RID/ADN, IMDG, IATA UN proper shipping name	Void
ADR/RID/ADN, IMDG, IATA Transport hazard class(es)	Void
ADR/RID/ADN, IMDG, IATA Class	Void
Packing group ADR/RID/ADN, IMDG, IATA	Void
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

### 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### Directive 2012/18/EU

**Named dangerous substances - ANNEX I** Substance is not listed.

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

#### REGULATION (EU) 2019/1148

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.

**Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

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

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Date of previous version:** 07.03.2024

#### Abbreviations and acronyms:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

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IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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