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

### 1.1. Product identifier

# Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, for 2x Cys conjugation [CTK0101]

CAS No.:  
EC No.:  
INDEX No.:  
REACH No.:

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Laboratory use  
Uses advised against: Other

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

#### Manufacturer

ChromoTek GmbH

Am Klopferspitz 19  
D 82152 Planegg-Martinsried

Telephone: +49 89 124 148 80  
Telefax: +49 89 124 148 811

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

ChromoTek GmbH

Am Klopferspitz 19  
D 82152 Planegg-Martinsried

Telephone: +49 89 124 148 80  
Telefax: +49 89 124 148 811

#### Information contact

ChromoTek GmbH

Information telephone: +49 89 124 148 80  
Information telefax: +49 89 124 148 811  
E-mail (competent person): info@chromotek.com  
Website: http://www.chromotek.com/

#### Dept. responsible for information:

ChromoTek GmbH

### 1.4. Emergency telephone number

Giftnotrufzentrale München

Telephone: +49 89 19 240

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008: -

### 2.2. Label elements

Classification according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms:** -**Signal word:** -**Hazard statements:** -**Precautionary statements:** -**Labeling****Hazardous component(s) for labelling**

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**Special labelling of particular preparations**

Safety data sheet available for professional user on request.

**2.3. Other hazards**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

**SECTION 3: Composition / information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures**

Nano-Secondary® alpaca anti-human IgG/anti-rabbit IgG, recombinant VHH, for 2x Cys conjugation [CTK0101] is a mixture.

**Composition/information on ingredients**

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):
Sodium azide	247-852-1	26628-22-8	011-004-00-7	01-2119457019-37-0000	< 0,1 % (v/v)	Acute Tox. 2; H300 Acute Tox. 2; H310 STOT RE 2; H373 Aqu. Acute 1; H400 Aqu. Chron. 1; H410 -; EUH032

(Full text of H- and EUH-phrases: see section 16.)

**Additional information**

none

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information:** In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).**Following inhalation:** No special measures are necessary. Seek medical attention if problems persist.**Following skin contact:** After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.**After eye contact:** In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek medical attention if problems persist.**After ingestion:** Rinse mouth immediately and drink plenty of water. Seek medical attention if problems persist.

## 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms:** No known symptoms to date.

## 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor:** No special measures are necessary.

**Special treatment:** No special measures are necessary.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Water fog. alcohol resistant foam. dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide.

### 5.3. Advice for firefighters

#### General information

Co-ordinate fire-fighting measures to the fire surroundings.

#### Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety. Provide adequate ventilation.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Avoid generation of dust. Clear contaminated areas thoroughly. Wash with plenty of water.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin and eyes.

#### Precautions against fire and explosion

Usual measures for fire prevention.

## 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

**Storage class:** 10-13

## 7.3. Specific end use(s)

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:

#### Substance with a common (EC) occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:

#### DNEL-/PNEC-values

##### DNEL value

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer

##### PNEC Value

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer

#### Risk management measures according to used control banding approach

none

#### Additional information

none

### 8.2. Exposure controls

#### Occupational exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### General protection and hygiene measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

#### Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### Respiratory protection

Respiratory protection not required.

#### Hand protection

Tested protective gloves are to be worn: DIN-/EN-Norms: DIN EN 374

**Eye/face protection**

Tightly sealed safety glasses.

**Body protection**

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

**Environmental exposure controls**

refer to chapter 7. No further action is necessary.

**Consumer exposure controls**

refer to chapter 7. No further action is necessary.

**Exposure Scenario**

none

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

<b>Physical state:</b>	liquid
<b>Colour:</b>	clear
<b>Odour:</b>	No data available
<b>Odour threshold:</b>	No data available

**Safety relevant basis data**

	parameter	unit	remark
<b>Density:</b>			No data available
<b>Bulk density:</b>			No data available
<b>pH:</b>		7,5	
<b>Melting point/freezing point:</b>			No data available
<b>Initial boiling point and boiling range:</b>			No data available
<b>Flash point:</b>			No data available
<b>Flammability (solid, gas):</b>			No data available
<b>Explosivity:</b>			No data available
<b>Lower explosion limit:</b>			No data available
<b>Upper explosion limit:</b>			No data available
<b>Ignition temperature:</b>			No data available
<b>Decomposition temperature:</b>			No data available
<b>Oxidizing potential:</b>			Combustible.
<b>Vapour pressure:</b>			not applicable
<b>Vapour density:</b>			not applicable
<b>Evaporation rate:</b>			not applicable
<b>Water solubility:</b>			soluble
<b>Fat solubility:</b>			No data available
<b>Soluble in:</b>	:		No data available
<b>Partition coefficient: n-octanol/water:</b>			No data available
<b>Viscosity:</b>			not applicable
<b>Solvent separation test:</b>			not applicable
<b>Solvent content:</b>			not applicable

**9.2. Other information**

There are no data available on the mixture itself.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

none

### 10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

heat. UV-radiation/sunlight.

### 10.5. Incompatible materials

Oxidizing agents. Reducing agent. Acid. Alkalis (alkalis).

### 10.6. Hazardous decomposition products

Pyrolysis products, toxic. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

There are no data available on the mixture itself.

#### Acute toxicity

Substance:	CAS-No.:	Toxicological information
Sodium azide	26628-22-8	Acute toxicity, oral LD50: 27 mg/kg (Rat) Acute toxicity, dermal LD50: 20 mg/kg (Rabbit)

#### Irritation and etching

Irritant effect on the skin

slightly irritant but not relevant for classification.

Irritant effect on the eye

slightly irritant but not relevant for classification.

#### Sensitization

not sensitising.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indications of human carcinogenicity exist.

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

#### STOT-single exposure

No information available.

**STOT-repeated exposure**

none

Aspiration hazard

Not an irritant.

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**SECTION 12: Ecological information****12.1. Toxicity**

There are no data available on the mixture itself.

**Ecotoxicity**

Substance:	CAS-No.:	Ecotoxicity
Sodium azide	26628-22-8	Acute fish toxicity LC50: 2,8 mg/l/96 h Acute algae toxicity EC50: 0,48 mg/l/96 h

**12.2. Persistence and degradability**

Product is biodegradable.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

No information available.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Appropriate disposal/Product**

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions. May be disposed of in household waste landfill.

**Appropriate disposal / Package**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**List of proposed waste codes/waste designations in accordance with EWC**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**Waste code product:** 18 02 05 - chemicals consisting of or containing dangerous substances

**Waste code packaging:** 15 01 10 - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

### 14.1. UN number

UN No.: -

### 14.2. UN proper shipping name

ADR / RID

-

IMDG / ICAO-TI / IATA-DGR

-

### 14.3. Transport hazard class(es)

Hazard label(s): -

Classification code: -

### 14.4. Packing group

Packing group: -

### 14.5. Environmental hazards

Environmental hazards: none

### 14.6. Special precautions for user

Land transport (ADR/RID)

Transport category: -

Tunnel restriction code: -

Special provisions: -

Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: -

Special provisions: -

Limited quantity (LQ): --

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark: none

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

none

Regulation (EC) No 2037/2000 concerning materials, which cause damage to the ozone layer.

none

Regulation (EC) No. 648/2004 (Detergents regulation)

none

#### National regulations

Observe in addition any national regulations!



**Restrictions of occupation**

none

**Storage class**

10-13

**Water hazard class (WGK)**

0 not a water pollutant

**Other regulations, restrictions and prohibition regulations**

none

**15.2. Chemical Safety Assessment**

**For this preparation a chemical safety assessment has been carried out:**

Chemical safety assessments for substances in this mixture were not carried out.

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**SECTION 16: Other information**

**Relevant H- and EUH-phrases (Number and full text)**

**Hazard statements**

EUH032 Contact with acids liberates very toxic gas.  
H300 Fatal if swallowed.  
H310 Fatal in contact with skin.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Training advice**

none

**Recommended restrictions of use**

refer to chapter 1.

**Further remarks**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Documentation of changes**

none

**Key literature references and sources for data**

Data arise from reference works and literature.

**Abbreviations and acronyms**

none