



**Safety Data Sheet according to Regulation (EU)  
2020/878 (REACH)**

Version: 2  
Replaces version: 1

Revision date: 03.10.2024  
from: 09.10.2018

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

### **1.1. Product identifier**

# **Actin-Chromobody® plasmid (acr)**

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

Relevant identified uses: Laboratory use  
Uses advised against: Diagnostics

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

#### **Manufacturer**

ChromoTek GmbH

Fraunhoferstr. 1  
D 82152 Planegg-Martinsried

**Telephone** +49 89 124 148 810  
**Telefax** +49 89 124 148 811

#### **Supplier**

ChromoTek GmbH

Fraunhoferstr. 1  
D 82152 Planegg-Martinsried

**Telephone** +49 89 124 148 810  
**Telefax** +49 89 124 148 811

#### **Information contact**

ChromoTek GmbH

**Information telephone** +49 89 124 148 810  
**Information telefax** +49 89 124 148 811  
**E-mail (competent person)** germany@ptglab.com  
**Website** <https://www.ptglab.com/>

### **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:

-

Special labelling of particular preparations:

## 2.3. Other hazards

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Mixtures

### 3.2. Mixtures

Actin-Chromobody® plasmid (acr) is a mixture with ingredients in low concentrations and other harmless admixtures

#### Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
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(Full text of H- and EUH-statements: see section 16.)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information:** In case of accident or unwellness, seek medical advice immediately

**In case of inhalation:** No special measures are necessary. Consult an ophthalmologist.

**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 flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Consult an ophthalmologist.

**After ingestion:** Rinse mouth immediately and drink plenty of water. Consult an ophthalmologist.

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

No known symptoms to date.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Water fog. Carbon dioxide (CO2). Foam. dry extinguishing powder.

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

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

In case of fire may be liberated: 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 fire-fighters:**

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.

### **6.2. Environmental precautions**

No special environmental protection measures are necessary.

### **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.

### **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**

No special precautionary measures are necessary.

#### **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 and in a well-ventilated place.

#### **Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

### **7.3. Specific end use(s)**

No other specific end uses are foreseen other than those mentioned in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### occupational exposure limit value

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
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#### Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
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#### DNEL-/PNEC-values

##### DNEL value

Substance:	CAS-No.:	DNEL/DMEL
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##### PNEC Value

Substance:	CAS-No.:	PNEC
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#### 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

With correct and proper use, and under normal conditions, breathing protection is not required.

#### Hand protection

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

#### Eye/face protection

Tightly sealed safety glasses.

#### Body protection:

Wear suitable protective clothing.

#### 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**

**Physical state:** Liquid  
**Colour:** No data available  
**Odour:** No data available  
**Odour threshold:** No data available

**Safety relevant basis data**

	parameter	Value	unit	Remark
<b>Melting point/freezing point:</b>				No data available
<b>Initial boiling point and boiling range:</b>				No data available
<b>Flammability:</b>				No data available
<b>lower flammability or explosive limits:</b>				No data available
<b>Upper flammability or explosive limits:</b>				No data available
<b>Flash point:</b>				No data available
<b>Ignition temperature:</b>				No data available
<b>Decomposition temperature:</b>				No data available
<b>pH:</b>				No data available
<b>Kinematic viscosity:</b>				No data available
<b>Water solubility (g/L):</b>				No data available
<b>Partition coefficient: n-octanol/water:</b>				No data available
<b>Vapour pressure:</b>				No data available
<b>Density:</b>				No data available
<b>Relative density:</b>				No data available
<b>Particle properties:</b>				No data available

### 9.2. Other information

none

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Heat. UV radiation/sunlight.

### 10.5. Incompatible materials

Oxidizing agents. Reducing agents. Acids. Alkalis (lyes).

### 10.6. Hazardous decomposition products

Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes within the meaning of Regulation (EC) No. 1272/2008

M-factor:

Acute toxicity (oral):

Acute toxicity (dermal):

Acute toxicity (inhalative):

#### Acute toxicity

Substance:	CAS-No.:	Toxicological information
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#### Skin corrosion/irritation:

slightly irritant but not relevant for classification.

#### Serious eye damage/irritation:

slightly irritant but not relevant for classification.

#### Respiratory or skin sensitisation:

In case of prolonged or frequently repeated skin contact: May cause sensitisation especially in sensitive humans.

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

Carcinogenicity:

No indication of human carcinogenicity.

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:

No information available.

#### Aspiration hazard

No data available

#### Additional information

none

### 11.2. Information about other hazards

#### 11.2.1 Endocrine disrupting properties

No known endocrine disrupting properties

#### 11.2.2 Other Information

none

## SECTION 12: Ecological information

### 12.1. Toxicity

No information available.

#### Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
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### 12.2. Persistence and degradability

Product is biodegradable.

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

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

### 12.6 Endocrine disruptive effect

No known endocrine disrupting properties

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Must not be disposed together with household garbage.

#### 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 according to EWC / AVV

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

## SECTION 14: Transport information

### 14.1. UN number

UN No.: none

## 14.2. UN proper shipping name

### Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

### Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

## 14.3. Transport hazard class(es)

Hazard label(s) / Label: none

Classification code: / Classification Code: none

## 14.4. Packing group

Packing group/ Packing Group: none

## 14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:

Marine pollutant:

Yes

☐

No

☒

## 14.6. Special precautions for user

Land transport (ADR/RID)

transport category: none

Special provisions: none

tunnel restriction code: none

Limited quantity (LQ): none

Sea transport (IMDG)

EmS-No: none

Special provisions: none Limited quantity (LQ): none

## 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

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer  
not relevant

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals  
none

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.  
none



#### **National regulations**

Observe in addition any national regulations!

#### **Restrictions of occupation**

none

#### **Solvents Regulation (31st BImSchV)**

none

#### **Other regulations, restrictions and prohibition regulations**

none

### **15.2. Chemical Safety Assessment**

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

For this substance a chemical safety assessment is not required.

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## **SECTION 16: Other information**

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

##### **Hazard statements**

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#### **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 storag

#### **Documentation of changes:**

Update according to current regulations

#### **Key literature references and sources for data**

Data arise from reference works and literature.

#### **Abbreviations and acronyms**

none