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

### 1.1. Product identifier

# Mdm4/HdmX-Trap Agarose Kit

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

Relevant identified uses: Research  
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

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/>

### 1.4. Emergency telephone number

ChromoTek GmbH

Telephone +49 89 124 148 80

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008:  
Flam. Liq. 3, H226; Eye Irrit. 2, H319

### 2.2. Label elements

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

Hazard pictograms



Signal word:

GHS02,GHS07  
Warning

#### Hazard statements:

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

#### Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof [electrical/ventilating/lighting/.?] equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P264 Wash .? thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+313 If eye irritation persists: Get medical advice/attention.  
P403+235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container to disposal.

#### Hazardous component(s) for labelling:

Ethanol

#### 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.

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## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

Mixture with, among others, the following ingredients and other non-hazardous admixtures

#### Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
Ethanol	200-578-6	64-17-5	603-002-00-5	01-2119457610-43-0000	15 - 25 %	Flam. Liq. 2, H225; Eye Irrit. 2, H319
Sodium Azide	247-852-1	26628-22-8	011-004-00-7		< 0,1 %	Acute Tox. 1/2, H300; Acute Tox. 1/2, H310; STOT RE 2, H373; Aquatic Chronic 1, H410

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

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information:</b>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.
<b>In case of inhalation:</b>	Provide fresh air. In case of respiratory tract irritation, consult a physician.
<b>Following skin contact:</b>	After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.
<b>After eye contact:</b>	In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
<b>After ingestion:</b>	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. Danger No risks worthy of mention.

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

Notes for the doctor No special measures are necessary. Treatment: Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Water fog. Carbon dioxide (CO<sub>2</sub>). Foam. dry extinguishing powder.

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

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

Vapours may form explosive mixtures with air. In case of fire may be liberated: Pyrolysis products, toxic.

#### 5.3. Advice for firefighters

##### General information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

##### 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. Provide adequate ventilation.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Specific end use(s) Provide adequate ventilation as well as local exhaustion at critical locations.

#### 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. Ensure adequate ventilation of the storage area. Keep/Store only in original container. Protect against: heat.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

none

## 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/m <sup>3</sup> ]	Limitation of exposure peaks:	Remark:
Ethanol	64-17-5	De	TRGS 900	500	960	2(II)	DFG, Y
Ethanol	64-17-5	EN	Gestis International Limit Values	1000	1920		

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

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m <sup>3</sup> ]	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:

Provide adequate ventilation as well as local exhaustion at critical locations. 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 necessary at: Formation of aerosol. Suitable respiratory protection apparatus: Combination filter device (DIN EN 141)..

**Hand protection**

Suitable material: Tested protective gloves are to be worn: DIN-/EN-Norms: EN ISO 374 Suitable material:  
Butyl / 0,5mm / 8h / -  
Viton® / 0,4mm / 8h / -  
Unsuitable material:  
NR (Naturkautschuk)  
NBR (Nitrilkautschuk)  
PVC (Polyvinylchlorid)

**Eye/face protection**

Tightly sealed safety glasses.

**Body protection:**

Suitable protective clothing: Overall. 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.

**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

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance**

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

**Safety relevant basis data**

	parameter	Value	unit	Remark
<b>pH:</b>				No data available
<b>Melting point/freezing point:</b>				No data available
<b>Initial boiling point and boiling range:</b>				No data available
<b>Flash point:</b>		~ 35,5	°C	
<b>Evaporation rate:</b>				No data available

Flammability (solid, gas):	No data available
Explosivity:	No data available
Upper flammability or explosive limits:	No data available
lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	
Density:	No data available
Soluble (g/L) in:	No data available
Water solubility (g/L):	No data available
Fat solubility (g/L):	No data available
Partition coefficient: n-octanol/water:	No data available
Ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Oxidizing properties:	No data available

## 9.2. Other information

none

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapours may form explosive mixtures with air.

### 10.2. Chemical stability

Decomposition with: UV-radiation/sunlight. heat.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

### 10.4. Conditions to avoid

heat. UV-radiation/sunlight.

### 10.5. Incompatible materials

Oxidising agent

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide. Carbon monoxide.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

M-factor:

Acute toxicity (oral):

Acute toxicity

Acute toxicity (dermal):

Acute toxicity (inhalative):

Substance:	CAS-No.:	Toxicological information
Ethanol	64-17-5	LD50 oral (rat) 7060 mg/kg LC50 inhalation (rat, 4 h) 51 mg/L LD50 dermal (rabbit) > 2000 mg/kg NOAEL STOT-RE oral (rat, 90 days, liver) 1730 mg/kg/d NOAEL STOT-RE inhalative (rat, 21 days) > 20 mg/L

**Skin corrosion/irritation:**  
mild irritant.

**Serious eye damage/irritation:**  
strongly irritant.

**Respiratory or skin sensitisation:**  
May cause an allergic skin reaction.

**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:**  
none

**STOT-repeated exposure:**  
none

**Aspiration hazard:**  
mild irritant.

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## SECTION 12: Ecological information

### 12.1. Toxicity

The information about ecology refers to the main components.

#### Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Ethanol	64-17-5	LC50 (fish, 96 h) 11000 mg/l EC50 (Great Water flea, 48 h) 12340 mg/L EC50 (algae, 72 h) 11,5 mg/l

### 12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

none

### 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

none

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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.

**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.

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## SECTION 14: Transport information

### 14.1. UN number

UN No.: 1993

### 14.2. UN proper shipping name

**Land transport (ADR/RID)**

ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G.  
Ethanol

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

FLAMMABLE LIQUID, N.O.S.  
Ethanol

### 14.3. Transport hazard class(es)

Hazard label(s) / Label: 3

Classification code: / Classification Code: F1



### 14.4. Packing group

Packing group/ Packing Group: III

### 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:	3	tunnel restriction code:	E
Special provisions:	274, 601	Limited quantity (LQ):	5 I

##### Sea transport (IMDG)

EmS-No: F-E, S-E

Special provisions: 223 274 955 Limited quantity (LQ): 5 I

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

Remark none

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### SECTION 15: Regulatory information

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

##### EU legislation

Information on Regulation (EC) No 166/2006 establishing a European Pollutant Release and Transfer Register:  
none

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer:  
none

Regulation (EC) No. 648/2004 (Detergents regulation)  
none

Regulation (EC) No 850/2004 [POP-Regulation]:  
none

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

Use restriction according to REACH annex XVII, no.::  
none

##### National regulations

Observe in addition any national regulations!

##### Restrictions of occupation

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

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

**Training advice**

Make sure that employees are aware of the intoxication risk. People wearing breathing apparatus must be appropriately trained.

**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

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