

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

### 1.1. Product identifier

# MDM4/HDMX-Trap Agarose (hta)

### 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

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

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#### Information contact

ChromoTek GmbH

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E-mail (competent person) [germany@ptglab.com](mailto:germany@ptglab.com)

Website <https://www.ptglab.com/>

### 1.4. Emergency telephone number

Giftnotrufzentrale München

Telephone +49 89 19 240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008:

Flam. Liq. 2, H225

### 2.2. Label elements

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

Hazard pictograms



Signal word:

GHS02  
Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

**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.

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].

P403+235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container.

**Special labelling of particular preparations:**

none

## 2.3. Other hazards

Not known

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

MDM4/HDMX-Trap Agarose (hta) is a mixture with, among others, the following ingredients and other non-hazardous admixtures in aqueous solution

**Composition/information on ingredients**

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Ethanol	64-17-5	01-2119457610-43-0000	20 %	Flam. Liq. 2, H225 Eye Irrit. 2, H319	M = 0

(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:** 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:** No special measures are necessary. Consult an ophthalmologist.

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

Symptoms Nausea. vomiting. Danger Depression of the central nervous system. unconsciousness.

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

Let water be drunken in little sips (dilution effect). Treat symptomatically.

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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

Vapours may form explosive mixtures with air.

### 5.3. Advice for firefighters

#### General information

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

#### 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

Provide adequate ventilation. Remove all sources of ignition. Remove persons to safety. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Take up mechanically, placing in appropriate containers for disposal. 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

See protective measures under point 7 and 8.

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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 and in a well-ventilated place.

#### Hints on joint storage

Do not store together with: Oxidizing agents.

### 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:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
Ethanol	64-17-5	EN	TRGS 900	500	960	2(II)	DFG, Y
		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/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

Respiratory protection necessary at: Formation of aerosol. gas filtering equipment (EN 141).

#### Hand protection

Tested protective gloves are to be worn: DIN-/EN-Norms: EN ISO 374 Suitable material: Butyl rubber. FKM (fluororubber).

#### 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

#### Physical state:

Suspension

#### Colour:

No data available

#### Odour:

No data available

#### Odour threshold:

No data available

#### Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:				No data available
Initial boiling point and boiling range:				No data available
Flammability:				No data available
lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Flash point:		ca 35	°C	
Ignition temperature:				No data available
Decomposition temperature:				not applicable
pH:				No data available
Kinematic viscosity:				No data available
Water solubility (g/L):				No data available
Partition coefficient: n-octanol/water:				No data available
Vapour pressure:				No data available
Density:				No data available
Relative density:				No data available
Particle properties:				No data available

### 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

With proper storage and handling the product is stable.

### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

Heat. UV radiation/sunlight.

#### 10.5. Incompatible materials

Oxidizing agent Reducing agent. Alkalis (alkalis). Alkali metals.

#### 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

Data apply to the main component.

M-factor: -

Acute toxicity (dermal): -

Acute toxicity (oral): -

Acute toxicity (inhalative): -

##### Acute toxicity

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 kg/d NOAEL STOT-RE inhalative (rat, 21 days) > 20 mg/L

##### 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:

No information available.

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

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No indications of human carcinogenicity 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.

##### Additional information

none

#### 11.2. Information about other hazards

##### 11.2.1 Endocrine disrupting properties

No information available.

#### 11.2.2 Other Information

none

## 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

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 Endocrine disruptive effect

No known endocrine disrupting properties

### 12.7. Other adverse effects

none

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

#### 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.: 1170

## 14.2. UN proper shipping name

### Land transport (ADR/RID)

ETHANOL (ETHYLALKOHOL) oder ETHANOL, LÖSUNG (ETHYLALKOHOL, LÖSUNG)

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

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

## 14.3. Transport hazard class(es)

Hazard label(s) / Label: 3

Classification code: / Classification Code: F1



## 14.4. Packing group

Packing group/ Packing Group: II

## 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: 2  
Special provisions: 144, 601

tunnel restriction code: D/E  
Limited quantity (LQ): 1 L

### Sea transport (IMDG)

EmS-No: F-E, S-D

Special provisions: Limited quantity (LQ): 1 L

## 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

#### **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**

H225            Highly flammable liquid and vapour.  
H319            Causes serious eye irritation.

#### **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:**

none

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

Data arise from reference works and literature.

#### **Abbreviations and acronyms**

none