

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

### 1.1 Product identifier

**Trade name/designation** MAST ISOPLEX DNA / RNA Extraction Proteinase K

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

#### Relevant identified uses

##### remark

The product is intended for research, analysis and scientific education.

The product is intended for professional use.

It is not required to list the identified uses because the substance is not subject to registration according to REACH (< 1 t/a).

##### Sector of uses [SU]

SU24 Scientific research and development

SU20 Health services

##### Product categories [PC]

PC21 Laboratory chemicals

##### Process categories [PROC]

PROC15 Use as laboratory reagent

##### Article categories [AC]

AC0 Other Articles:

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

#### Manufacturer

Mast Diagnostica GmbH

Feldstrasse 20

Deutschland-23858 Reinfeld

Telephone: +49 4533 2007 0

Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

### 1.4 Emergency telephone number

Only available during office hours.

Poison Information Centre / Gift Notrufzentrale

Mathildenstraße 1, 79106 Freiburg, Germany / Deutschland

Phone: +49 761 19240 / Fax: +49 761 270 44 570

E-Mail: giftinfo@uniklinik-freiburg.de / Web: www.giftberatung.de

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

#### health hazards

Acute Tox. 4

#### hazard statements for health hazards

H302 Harmful if swallowed.

#### health hazards

Acute Tox. 4

#### hazard statements for health hazards

H312 Harmful in contact with skin.

#### health hazards

Acute Tox. 4

#### hazard statements for health hazards

H332 Harmful if inhaled.

**health hazards**

Skin Corr. 1C

**hazard statements for health hazards**

H314 Causes severe skin burns and eye damage.

**Environmental hazards**

Aquatic Chronic 3

**hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

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

**Hazard components for labelling**

Substance name  
guanidinium thiocyanate

**Hazard pictograms**



GHS07

GHS08

**Signal word**

Danger

**Hazard statements**

**hazard statements for health hazards**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.

**Hazard statements for environmental hazards:**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**General:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

**Prevention:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P301+ P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor/.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to .

### Special rules on packaging

Child-resistant fastenings (EN/862/ISO 8317). Tactile warning according to EN/ISO 11683.

### Other labelling

### Standard phrases for safety precautions for the protection of humans or the environment

#### General rules

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

#### Safety precautions for operators (SPo)

General rules

### 2.3 Other hazards

#### Adverse human health effects and symptoms

Frequently or prolonged contact with skin may cause dermal irritation. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

## SECTION 3: Composition / information on ingredients

### remark

Full text of R-, H- and EUH-phrases: see section 16. Full text of H- and EUH-statements: see section 16.

### 3.1/3.2 Substances/Mixtures

#### Hazardous ingredients

Proteinase	>=50 - <=100 %
CAS 39450-01-6	
EC 254-457-8	
Acute Tox. 4, H302 / Acute Tox. 4, H312 / Acute Tox. 4, H332 / Skin	
Corr. 1C, H314 / Aquatic Chronic 3, H412	

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Do not leave affected person unattended. Remove victim out of the danger area.

#### Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### Following skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

#### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

#### Self-protection of the first aider

none

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

#### If decomposition products are inhaled the following symptoms can occur

none

#### Effects

This information is not available.

#### Symptoms

This information is not available.

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

##### Notes for the doctor

No data available

##### Special treatment

No data available

### SECTION 5: Firefighting measures

#### Additional information

Move undamaged containers from immediate hazard area if it can be done safely. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Remove product from area of fire.

#### 5.1 Extinguishing media

##### Suitable extinguishing media

alcohol resistant foam

Water mist

Carbon dioxide (CO<sub>2</sub>)

Extinguishing powder

##### Unsuitable extinguishing media

Full water jet

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

##### Hazardous combustion products

In case of fire may be liberated:

#### 5.3 Advice for firefighters

##### Special protective equipment for firefighters

Use suitable breathing apparatus. protective clothing.

### SECTION 6: Accidental release measures

#### Additional information

Clear spills immediately.

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

##### For non-emergency personnel

##### Emergency procedures

Provide adequate ventilation.

##### Personal precautions

Use personal protection equipment.

##### Protective equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

##### For emergency responders

##### Personal protection equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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

##### For containment

##### Suitable material for taking up

Absorbing material, organic

Water (with cleaning agent)

##### For cleaning up

##### Suitable material for diluting or neutralizing

Water

**Other information**

Section 7 Information zur sicheren Handhabung / information on safe handling  
none

**6.4 Reference to other sections**

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Advices on general occupational hygiene**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work.

Make available sufficient washing facilities  
Provide eye shower and label its location conspicuously

**Protective measures**

**Advices on safe handling**

Inhalation  
Inhalation of dust/particles  
Skin contact  
Eye contact

**7.2 Conditions for safe storage, including any incompatibilities**

**Regulation on Flammable Liquids - VbF**

remark  
none

**Technical measures and storage conditions**

none

**Packaging materials**

none

**Requirements for storage rooms and vessels**

The floor should be leak tight, jointless and not absorbent. Keep/Store only in original container. Keep container tightly closed. Store in a place accessible by authorized persons only.

**Further information on storage conditions**

Protect containers against damage.

**7.3 Specific end use(s)**

**Recommendation**

Observe technical data sheet. Observe instructions for use.

**Industrial sector specific solutions**

none

**SECTION 8: Exposure controls/personal protection**

**Additional information**

Observe the expiry date.

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	Substance name	LTV	STV	remark
67-63-0	Propan-2-ol	999 mg/m <sup>3</sup> 400 ppm	1250 mg/m <sup>3</sup> 500 ppm	Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

## Exposure limits at intended use

### biological limit values

**remark**

none

not relevant

### air limit values

**remark**

not relevant

**Recommended monitoring procedures:**

none

## 8.2 Exposure controls

### Appropriate engineering controls

#### Structural measures to prevent exposure

none

#### Organisational measures to prevent exposure

#### Phrase ID -1 Übersetzung (ISO-Code: en) nicht gefunden!!

none

#### Substance/mixture related measures to prevent exposure during identified uses

none

#### Technical measures to prevent exposure

none

### Personal protection equipment

#### Eye/face protection

##### Suitable eye protection

Eye glasses with side protection

#### Skin protection

##### Suitable gloves type

Disposable gloves

#### Body protection

##### Suitable protective clothing

lab coat

### Environmental exposure controls

#### Instructional measures to prevent exposure

none

#### Organisational measures to prevent exposure

none

#### Substance/mixture related measures to prevent exposure during identified uses

none

#### Technical measures to prevent exposure

none

### Consumer exposure controls

#### Measures related to consumer uses of the substance (as such or in preparations).

none

**Measures related to the service life of the substance in articles**

none

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

**Physical state**

solid

**Colour**

white

**Odour**

odourless

**Odour threshold**

not determined

	parameter	Method - source - remark
pH	6,5 - =6,5	in aqueous solution not determined
Melting point/freezing point		not determined
Initial boiling point and boiling range		not determined
Flash point (°C)	<21 - <=21 °C	literature value not applicable
Evaporation rate		not applicable
flammability	=425 - =425	Highly flammable liquid and vapour (H225).
Upper explosion limit	15 - =15 Vol-%	not applicable
lower explosion limit	3,5 - 3,5 Vol-%	not determined
Vapour pressure	59 - =59 hPa	Temperature =20 - =20 °C
Vapour density		not applicable
Relative density		not applicable
Fat solubility (g/L)		not determined
Water solubility (g/L)		very soluble
Soluble (g/L) in		very soluble miscible
Partition coefficient: n-octanol/water		not determined
Auto-ignition temperature		not applicable
Decomposition temperature		not determined
Dynamic viscosity		not relevant
flow time		not relevant
Kinematic viscosity		not relevant

parameter	Method - source - remark
Thermal sensitivity	not sensitive to impact using an impact energy of 40 J not sensitive to friction using a friction load of 360 N not relevant
Sensitiveness to impact (J)	negative, no explosion
Sensitiveness to friction (N)	not sensitive to impact using an impact energy of 40 J not sensitive to friction using a friction load of 360 N not relevant
Oxidising liquids	not relevant
Oxidising solids	not relevant
Oxidising gases	not relevant

## 9.2 Other information

### Physical hazards

#### Explosives

##### Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

##### Assessment/classification

No ignition, explosion, self-heating or visible decomposition.

#### Flammable gases

##### Justification for data waiving

not applicable  
not relevant

##### Assessment/classification

Non-flammable.

#### Flammable aerosols

##### Justification for data waiving

Testing can be waived because substance is not an aerosol.

##### Assessment/classification

Not classified as flammable aerosol.

#### Oxidising gases

##### Justification for data waiving

Testing can be waived because substance is a liquid.

##### Assessment/classification

Not oxidising.

#### Gases under pressure

##### Justification for data waiving

Testing can be waived because substance is a liquid.

##### Assessment/classification

not applicable  
not relevant



**flammable liquids**

**Justification for data waiving**

not applicable  
not relevant

**Assessment/classification**

not applicable  
not relevant

**Flammable solids**

**Justification for data waiving**

Testing can be waived because substance is a liquid.

**Assessment/classification**

not applicable  
not relevant

**Self-reactive substances and mixtures**

**Justification for data waiving**

not applicable  
not relevant

**Assessment/classification**

not applicable  
not relevant

**Pyrophoric liquids**

**Justification for data waiving**

not applicable  
not relevant

**Assessment/classification**

not applicable  
not relevant

**Pyrophoric solids**

**Justification for data waiving**

not applicable  
not relevant

**Assessment/classification**

not relevant  
not applicable  
Not pyrophoric.

**self-heating substances and mixtures**

**Justification for data waiving**

not applicable  
not relevant

**Assessment/classification**

not applicable  
not relevant

**Substances or mixtures which, in contact with water, emit flammable gases**

**Justification for data waiving**

not applicable  
not relevant

**Assessment/classification**

not applicable  
not relevant

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### Oxidising liquids

**Justification for data waiving**

not applicable  
not relevant

**Assessment/classification**

not applicable  
not relevant

### Oxidising solids

**Justification for data waiving**

not applicable  
not relevant

**Assessment/classification**

Not oxidising. Not oxidising.

### Organic peroxides and self-reactive substances

**Justification for data waiving**

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

**Assessment/classification**

not applicable  
not relevant

### Corrosive to metals

**Justification for data waiving**

not relevant  
not applicable

**Assessment/classification**

not applicable  
not relevant

### Properties of explosive atmospheres (Gases/vapours)

#### Temperature class

**remark**

not applicable  
not relevant  
none

#### Maximum experimental safe gap (MESG)

**remark**

not applicable  
not relevant  
none

#### Explosion group

**remark**

not applicable  
not relevant  
none

#### Minimum ignition current (MIC)

**remark**

not applicable  
not relevant  
none

#### Minimum ignition energy (MIE)

**remark**

not relevant  
not applicable  
none

**Maximum explosion pressure (Pmax)**

**remark**

none  
not applicable  
not relevant

**Maximum rate of pressure rise ((dp/dt)max)**

**remark**

not applicable  
not relevant

**Basic test for hazard evaluation of dusts**

**particle size distribution (median value)**

**evaluation**

none  
not applicable  
not relevant

**remark**

none  
not applicable  
not relevant

**Moisture content (quantitative determination of water content)**

**evaluation**

not applicable  
not relevant

**remark**

none  
not applicable

**Dust explosibility**

**evaluation**

none  
not applicable

**remark**

not applicable  
not relevant  
none

**lower explosion limit**

**evaluation**

not applicable  
not relevant  
none

**source**

not applicable  
none

**Maximum rate of pressure rise and KSt-value respectively**

**evaluation**

none  
not applicable

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**remark**

none  
not applicable  
not relevant

**Limiting oxygen concentration**

**evaluation**

not applicable  
not relevant

**remark**

none  
not applicable

**Minimum ignition temperature of a dust cloud**

**evaluation**

not applicable  
not relevant

**remark**

none  
not applicable

**Flammability and burning behaviour of dust layers: burning number (BZ)**

**evaluation**

none  
not applicable

**remark**

none  
not applicable  
not relevant

**Minimum ignition temperature of a 5 mm dust layer (glowing temperature)**

**evaluation**

not applicable  
not relevant

**remark**

none  
not applicable  
not relevant

**Smoldering point**

**evaluation**

none  
not applicable  
not relevant

**remark**

none  
not applicable  
not relevant

**Gel permeation chromatography (GPC)**

**Low molecular weight content of polymers (Dalton)**

**remark**

none  
not applicable  
not relevant

**Number-average molecular weight (Mn)**

**remark**

not applicable  
not relevant

**Number-average molecular weight (Mn)**

**remark**

not applicable  
not relevant

**Solution/extraction behaviour of polymers in water**

**remark**

not applicable  
not relevant

**Weight-average molecular weight (Mw)**

**remark**

not applicable  
not relevant

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

This material is considered to be non-reactive under normal use conditions.

**10.2 Chemical stability**

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

**10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4 Conditions to avoid**

not applicable  
not determined  
not relevant

**10.5 Incompatible materials**

**Materials to avoid**

not applicable  
not determined  
not relevant

**10.6 Hazardous decomposition products**

not applicable  
not relevant

**Additional information**

not applicable  
No data available

**SECTION 11: Toxicological information**

**Additional information**

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

**Toxicokinetics, metabolism and distribution**

**Non-human toxicological data**

**remark**

No information available.

**11.1 Information on toxicological effects**

**Aspiration hazard**

**remark**  
data lacking

**Acute toxicity**

**Other information**  
not determined

**Acute dermal toxicity**

**remark**  
data lacking

**Acute inhalation toxicity (dust/mist)**

**Symptoms / delayed effects**

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

**skin corrosion/irritation**

**Acid-/Alkali reserve (buffer capacity for mixtures with extreme pH values)**

**In vitro skin test**

**Result**  
strongly irritant.

**Respiratory or skin sensitisation**

**Sensitisation to the respiratory tract**

**Assessment/classification**

May cause sensitization by inhalation and skin contact. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Practical experience/human evidence**

ingredient  
Practical experience/human evidence

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

**Germ cell mutagenicity**

**Assessment/classification**

The classification criteria for this hazard class are not met by definition.

**Carcinogenicity**

**remark**  
Longterm experiments do not indicate carcinogenic effects.

**Reproductive toxicity**

**Practical experience/human evidence**  
No indications of human reproductive toxicity exist.

**Assessment/classification**

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

**STOT-single exposure**

**STOT SE 1 and 2**

**Dermal specific target organ toxicity (single exposure)**

**Assessment/classification**  
The classification criteria for this hazard class are not met by definition.

**Inhalative specific target organ toxicity (single exposure)**

**Assessment/classification**  
The classification criteria for this hazard class are not met by definition.

**Oral specific target organ toxicity (single exposure)**

**Assessment/classification**  
The classification criteria for this hazard class are not met by definition.

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**STOT SE 3**

**Irritation to respiratory tract**

**Assessment/classification**

May cause respiratory irritation.

**Repeated dose toxicity (subacute, subchronic, chronic)**

**Subacute oral toxicity**

**remark**

data lacking

**Subacute dermal toxicity**

**remark**

data lacking

**Subacute inhalation toxicity**

**remark**

data lacking

**STOT-repeated exposure**

**STOT RE 1 and 2**

**Dermal specific target organ toxicity (repeated exposure)**

**Assessment/classification**

The classification criteria for this hazard class are not met by definition.

**Inhalative specific target organ toxicity (repeated exposure)**

**Assessment/classification**

The classification criteria for this hazard class are not met by definition.

**Oral specific target organ toxicity (repeated exposure)**

**Assessment/classification**

The classification criteria for this hazard class are not met by definition.

**Other adverse effects**

**Phototoxicity**

**In vitro phototoxicity**

**remark**

data lacking

**In vivo phototoxicity**

**remark**

data lacking

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Acute (short-term) fish toxicity**

**remark**

No data available

**Acute (short-term) toxicity to crustacea**

**remark**

No data available

**Chronic (long-term) toxicity to crustacea**

**remark**

No data available

**Chronic (long-term) fish toxicity**

**remark**

No data available

**Acute (short-term) toxicity to aquatic algae and cyanobacteria**

**remark**

No data available

**Chronic (long-term) algae toxicity**

**remark**

No data available

**Toxicity to other aquatic plants/organisms**

**remark**

No data available

**Toxicity to microorganisms**

**remark**

No data available

**Sediment toxicity**

**Effects on soil microorganisms**

**remark**

No data available

**Toxicity to soil macroorganisms**

**Acute earthworm toxicity**

**remark**

No data available

not applicable

**Chronical earthworm toxicity (reproduction)**

**remark**

No data available

not applicable

**Long-term toxicity of organisms living in the sediment**

**remark**

No data available

not applicable

**Terrestrial toxicity**

**Toxicity to terrestrial arthropods**

**Useful insect toxicity**

**remark**

not applicable

No data available

**Toxicity to terrestrial plants**

**Acute plant toxicity**

**remark**

not applicable

No data available

**Toxicity to birds**

**Acute and subchronic bird toxicity**

**remark**

not applicable

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No data available

**Bird reproduction toxicity**

**remark**

No data available  
not applicable

**Additional ecotoxicological information**

**Dissolved organic carbon (DOC)**

**remark**

not applicable

**Theoretical oxygen demand (ThOD)**

**remark**

not applicable

**Theoretical carbon dioxide amount (ThCO<sub>2</sub>)**

**remark**

not applicable

**Chemical oxygen demand (COD)**

**remark**

not applicable

**Biochemical oxygen demand**

**remark**

not applicable

**BOD<sub>5</sub>/COD ratio**

**remark**

not applicable

**Total organic carbon (TOC)**

**remark**

not applicable

**inorganic carbon (IC)**

**remark**

not applicable

**AOX**

**remark**

not applicable  
No data available

**POX**

**remark**

not applicable  
No data available

**EOX**

**remark**

No data available  
not applicable

**Additional information**

The product has not been tested.

**12.2 Persistence and degradability**

**Abiotic degradation**

**remark**

not applicable  
No data available

**Biodegradation**

**remark**

not applicable  
No data available

**Assessment/classification**

No data available  
not applicable

**12.3 Bioaccumulative potential**

**Assessment/classification**

No indication of bioaccumulation potential. Water hazard class 1 (German Regulation), do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

**12.4 Mobility in soil**

**Assessment/classification**

not applicable

**12.5 Results of PBT and vPvB assessment**

not applicable

**12.6 Other adverse effects**

**Atmospheric lifetime**

**remark**

not applicable  
No data available

**Endocrine disrupting potential**

**remark**

not applicable  
No data available

**Global warming potential (GWP)**

**remark**

not applicable  
No data available

**Ozone depletion potential (ODP)**

**remark**

No data available  
not applicable

**Photochemical ozone creation potential (POCP)**

**remark**

not applicable  
No data available

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Appropriate disposal / Product**

Non-contaminated packages must be recycled or disposed of.

**Appropriate disposal / Package**

Delivery to an approved waste disposal company. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**Waste code packaging** 180000

**hazardous waste** No

**Waste name**

WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)

**Waste code product** 180000

**hazardous waste** No

**Waste name**

WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)

**Waste code product** 180200

**hazardous waste** No

**Waste name**

wastes from research, diagnosis, treatment or prevention of disease involving animals

**Waste code product** 180203

**hazardous waste** No

**Waste name**

wastes whose collection and disposal is not subject to special requirements in order to prevent infection

**remark**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	1760	1760	1760
14.2 Proper Shipping Name	CORROSIVE LIQUID, N.O.S. CORROSIVE LIQUID, N.O.S. Corrosive liquid, n.o.s.		
14.3 Class(es)	8	8	8
14.4 Packing group	I	I	I
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

**Additional information - Land transport (ADR/RID)**

**Hazard label(s)** 8  
**Classification code** C9  
**Limited quantity (LQ)** 0  
**Hazard identification number (Kemler No.)** 88  
**tunnel restriction code** E  
**transport category** 1

**remark**

Not classified for this transport way. This product is part of a kit. Information in this section refers to the kit as a whole.

**Additional information - Sea transport (IMDG)**

**Marine pollutant** No

**remark**

Not classified for this transport way.

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**Additional information - Air transport (ICAO-TI / IATA-DGR)**

Limited quantity (LQ) 0

**remark**

Not classified for this transport way. This product is part of a kit. Information in this section refers to the kit as a whole.

**Special precautions for user**

none

**Additional information**

**All transport carriers**

No dangerous good in sense of these transport regulations. This product is part of a kit. Information in this section refers to the kit as a whole.

**SECTION 15: Regulatory information**

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

No data available

**15.2 Chemical Safety Assessment**

For this substance a chemical safety assessment is not required.

**SECTION 16: Other information**

**Abbreviations and acronyms**

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

See SECTION 2.1 (classification).

**Indication of changes**

none

**Additional information**

Information concerning special preventive measures on bulk ware are available on demand. During mixing, observe all labels and safety data sheets of all the components.

Single pack

Notice the directions for use on the label. Data relies on practical experience.

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

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**Key literature references and sources for data**

[www.esdb.eu](http://www.esdb.eu)

**Training advice**

Special training for first aid necessary.