

# Material Safety Data Sheet Proteinase K

## 1. Chemical Product & Company Identification

MSDS Name: Proteinase K
Catalog Number: 13.2164.71
Synonymes: Not known
EC Number: 3.21.64
CAS Number: 39450-01-6

REACH: The substance does not have a registration number. The annual

amount does not require a registration.

Company Identification: Davids Biotechnologie GmbH

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Germany

http://www.davids-bio.de

Phone Number: ++49 (0)941 948228

#### 1.2 Identified Uses

Laboratory chemicals, Manufacture of substances

Not for diagnostic or therapeutic use. Not for human use. For research purposes only. This product is not a medical device. Not for use in in vitro diagnostic procedure for clinical diagnosis. Custom tests must be done to determine the ability for a specific use.

#### 2. Composition & Information on Ingredients

#### 2.1 Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2) H315 Eye irritation (Category 2) H319 Respiratory sensitization (Category 1) H334

#### 2.2 Labelling according to Regulation (EC) No 1272/2008

Pictogram

Signal word: Danger

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Precautionary statements

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling. P280 Wear protective gloves/

eye protection/ face protection.

P284 Wear respiratory protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements none

Supplemental Hazard Statements: none

Reduced Labeling (<= 125 ml)

**Pictogram** 

Signal word: Danger

Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if H334

inhaled.

**Precautionary statements** 

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P284 Wear

respiratory protection.

Supplemental Hazard Statements none

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

For further information refer to H-Statements.

#### 3. Composition & Ingredients

Synonyms: Endopeptidase K CAS No: 39450-01-6 EC No: 3.4.21.64 Index No: 647-014-00-9

Component	Classification	Concentration
Proteinase K	Skin Irrit. 2	<= 100%
CAS No: 39450-01-6	Eye Irrit. 2	
EC No: 3.4.21.64	Resp. Sens. 1	
Index No: 647-014-00-9	H315, H319, H334	

For further information refer to H-Statements.

#### 4. First Aid Measures

General: The first aiders need to protect themselves. Show this safety

datasheet to the doctor in attendance.

In case of inhalation: After inhalation: fresh air. Call in physician. In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/shower.

In case of eye contact: Rinse out with plenty of water. Call in ophthalmologist. Remove

contact lenses.

In case of swallowing: Immediately make victim drink water (two glasses at most). Consult a

physician.

Important symptoms and effects, both acute and

delayed:

The most important known symptoms and effects are described in

the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special

treatment needed: No data available

# 4. Fire Fighting Measures

Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical

spray. Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

Autoignition Temperature: No data available No data available Flash Point: Explosion Limits: Lower: No data available Explosion Limits: Upper: No data available NFPA Rating: No data available

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-

demand (NIOSH approved or equivalent), and full protective gear

to prevent contact with skin and eyes.

#### 5. Accidental Release Measures

Protective precautions, protective equipment and emergency procedures:

Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Evacuate the danger area, observe emergency procedures and

consult and expert.

Environmental precautions: Take steps to avoid release into the environment, if safe to do so.

Methods and material for Cover drains. Contain spill and collect carefully, as appropriate containment and cleaning up: Transfer to a chemical waste container for disposal in accordance

with local regulations. Clean up affected area and avoid generation of

dusts.

#### 6. Handling and Storage

Handling: Work under hood. Do not inhale the substance/mixtures.

Avoid breathing dust, fume, gas, mist, vapors or spray.

Avoid prolonged or repeated exposure.

Hygiene Measures: Change contaminated clothes immediately.

Wash hands and face after working with the substance.

Apply preventive skin protection. Refer to section 2 for precautions.

Storage: Keep container tightly closed and dry.

Store the container locked in an area accessible only to qualified

persons.

Store in accordance with information listed on the product insert.

Storage Class: TRGS 510: 11: Combustible Solids

Hazard Label Information: Avoid contact with skin and eyes.

> Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

# 7. Exposure Controls, Personal Protection

Protective Equipment Summary -Hazard Label Information:

Compatible chemical-resistant gloves

Eye wash station in work area

Lab coat Safety glasses

Safety shower in work area

Vent Hood

Eye Protection: Safety glasses. Use equipment tested and approved under

appropriate government standards like NIOSH (US) or EN 166

(EU).

**Protective Gloves:** Compatible chemical-resistant gloves. Material: Nitrile rubbe.

> Layer thickness: > 0,11 mm. Break Through Time: 480 min. This recommendation applies only to the substance provided by us. When the substance is dissolved or mixed please contact your

supplier of CE-approved gloves.

Other Protective Clothing: Lab coat **Respiratory Equipment** 

(Specific Type): NIOSH approved respirator, as conditions warrant. P95 (US) or

type P1 (EU EN 143) particle respirator. For higher protection level use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143)

respirator cartridges.

Work, Hygienic and Do not take internally

Maintenance Practices: Facilities storing or utilizing this material should be equipped

with an eyewash facility and a safety shower.

Wash thoroughly after handling.

Environmental Exposure Controls: Do not let the product enter drains.

### 8. Physical & Chemical Properties

Physical State: Powder Colour: white

Not available Odour: :Ha Not available Vapour Pressure: Not available Not available Vapour Density: **Evaporation Rate:** Not available Not available Viscosity: **Boiling Point:** Not available Freezing/Melting Point: Not available Decomposition Temperature: Not available at 25°C soluble Solubility in water: Specific Gravity/Density: Unknown Molecular Formula: Unknown

### 9. Stability & Reactivity

Reactivity: No data available

Chemical Stability: This product is stable under standard conditions

(room temperature)

Conditions to Avoid: Excess heat

Incompatibilities with other materials:

Hazardous Decomposition Products:

No data available
Hazardous Polymerization:

No data available

### 10. Toxicological Information

Acute oral toxicity: No data available Acute inhalation toxicity: No data available Acute dermal toxicity: No data available Skin corrosion/irritation: Cause skin irritation

Serious eye damage/irritation: Causes serious eye irritation

May cause allergy or asthma symptoms or breathing Respiratory or skin sensitization:

difficulties if inhaled.

No data available Germ cell mutagenicity:

Carcinogenicity: No ingredient of this product present at levels >= 0.1% is

identified as probable, possible or confirmed human

carcinogen by IARC No data available

No data available

Reproductive toxicity:

Specific target organ toxicity

(Single exposure):

Specific target organ toxicity

No data available (Repeated exposure): Aspiration hazard: No data available

### 11. Ecological Information

Avoid release into the environment. Toxicity:

Runoff from fire control or dilution water may cause

pollution.

PBT and vPvB results: This product contains no components considered to be either

> persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1%

or higher.

# 12. Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state, and federal

regulations.

Leave chemicals in original containers. No mixing with other waste, Uncleaned empty containers are to be treated like the

ingredients. Notice Directive on waste 2008/98/EC

### 13. Transport Information

**UN Number:** 

ADR/RID: NA IMDG: NA IATA: NA

UN proper shipping name:

Land Transport (European ADR/RID)

ADR/RID Shipping Name: No dangerous goods.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name: No dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal

regulations

#### 14. Regulatory Information

European/International Regulations:

This material safety data sheet complies with the requirement of Regulation (EC) No. 1907/2006. European Labeling in Accordance with EC Directives

Take note of Directive 94/33/EC on the protection of young people at work.

No chemical safety assessment was carried out for this product.

**Hazard Symbols:** GHS 08: Systemic Health Hazards

Hazard statements

H315 Causes skin irritation.

Causes serious eye irritation. H319

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

**Precautionary statements** 

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P261

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eye protection/ face protection.

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P302 + P352 IF ON SKIN: Wash with plenty of water.

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contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements none

#### 15. Further Information

MSDS Creation Date: 03/01/2022 **Revision Date:** 03/01/2022 Not for diagnostic or therapeutic use. Not for human use. For research purposes only. This product is not a medical device. Not for use in in vitro diagnostic procedure for clinical diagnosis. Custom tests must be done to determine the ability for a specific use.

The information in this data sheet represents the best information that is currently available to us. However we make no warranty of merchantability or any other warranty, express or implied. The person who uses the substances should make their own investigations to determine the suitability of the information for their own use. The company is in no event liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages arising, even if the company has been advised of the possibility of such damages.