

## **Safety Data Sheet**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

#### **Product identifier**

Product code EO0491
Product name Proteinase K
Unique Formula Identifier Not Applicable

(UFI)

Chemical Name Not Applicable

**REACH registration number** No registration number is given yet for this substance / substances in this mixture

since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet

expired.

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

Relevant identified uses Research Use Only. Not for use in diagnostic procedures

**Use Description Code** SU22 - Professional uses: Public domain (administration, education,

entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 -

Laboratory chemicals, SU24 - Scientific research and development

**Uses advised against** Not for consumer use.

## Details of the supplier of the safety data sheet

## Manufacturer / Supplier

Thermo Fisher Scientific Baltics UAB Life Technologies Limited

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Lithuania Paisley

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LIFE TECHNOLOGIES EUROPE BV KWARTSWEG 2 2665 NN BLEISWIJK NETHERLANDS 31-(0)180 392 400

Email: MSDS@lifetech.com

## **Emergency telephone number**

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

**Exposure, or Accident. Call CHEMTREC**Outside the USA + Canada: 1-703-741-5970

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## **Country Specific Emergency Number (if available):**

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish) +(44)-870-8200418 (Greeting Language: English)

#### SECTION 2: Hazards identification

#### Classification of the substance or mixture

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

#### Physical hazards

Not classified

#### **Health hazards**

Respiratory sensitiser

Category 1

#### **Environmental hazards**

Not classified

#### Additional information

Not Applicable

#### Label elements

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

## Hazard pictograms



## **Signal Word**

Danger

## **Hazard Statements**

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### **EU Specific Hazard Statements**

Not Applicable

## **Precautionary Statements**

#### Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P284 - In case of inadequate ventilation wear respiratory protection

#### Response

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

## **Storage**

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## Not Applicable

#### **Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other hazards

Not Applicable

## SECTION 3: Composition/information on ingredients

#### **Mixtures**

We recommend handling all chemicals with caution.

Chemical Name	CAS No	EINECS-No.	Weight-%	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Proteinase, tritirachium album serine	39450-01-6	254-457-8	1 - 5	-	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334

Chemical Name	Specific concentration limit (SCL)	M-Factor	Acute Toxicity Estimate
Proteinase, tritirachium album serine	-	-	-

#### SECTION 4: First aid measures

#### **Description of first aid measures**

**Skin contact** Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

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

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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## SECTION 5: Firefighting measures

## **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. No information available.

## Special hazards arising from the substance or mixture

Not known

## Advice for firefighters

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
See section 8 for more information

#### **Environmental precautions**

No special environmental precautions required.

## Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

## Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

#### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

## **Storage Conditions**

Store at -20 °C.

#### Specific end use(s)

Research Use Only. Not for use in diagnostic procedures.

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## SECTION 8: Exposure controls/personal protection

## Control parameters

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Proteinase, tritirachium album	None	None	None
serine			
39450-01-6			

Chemical Name	Austria	Belgium (TWA)	Czech Republic
Proteinase, tritirachium album	None	None	None
serine			
39450-01-6			Į.

Chemical Name	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)
Proteinase, tritirachium album	None	None	None
serine			
39450-01-6			

Chemical Name	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Proteinase, tritirachium album	None	None	None
serine			
39450-01-6			

Chemical Name	Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway
Proteinase, tritirachium album	None	None	None
serine			
39450-01-6			

Chemical Name	Poland	Portugal	Spain OEL (TWA)
Proteinase, tritirachium album	None	None	None
serine			
39450-01-6			

Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
Proteinase, tritirachium album serine	None	None	None
39450-01-6			

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas.

#### **Exposure controls**

## Personal protection equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

**Hand protection** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** 

No special environmental precautions required.

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## SECTION 9: Physical and chemical properties

°F No data

°F No data

°F No data

## Information on basic physical and chemical properties

Physical state liquid
Colour No data
Odour No data
Molecular Weight No data
Melting point / melting range °C No data

Melting point / melting range°C No data°F No dataBoiling point / boiling range°C No data°F No data

Flammability (solid, gas) No data available

Lower explosion limitNo dataUpper explosion limitNo dataFlash point°C No dataAutoignition Temperature°C No data

Decomposition temperature°CNo dataEvaporation rateNo dataViscosityNo data

Solubility No data available Partition coefficient: No data available

n-octanol/water

Vapour PressureNo dataSpecific gravityNo dataRelative densityNo dataVapour densityNo dataExplosive propertiesNo dataOxidising propertiesNo dataParticle characteristicsNo data

#### Other information

#### Information with regards to physical hazard classes

No information available

## Other safety characteristics

No information available

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## SECTION 10: Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

**Conditions to avoid**None under normal processing.

**Incompatible materials**No dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

None under normal use conditions.

## SECTION 11: Toxicological information

#### Information on hazard classes as defined in Regulation (EC) No 1272/2008

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proteinase, tritirachium album	No data available	No data available	No data available
serine			

#### **Principal Routes of Exposure**

**Skin corrosion/irritation**Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitisation

May cause sensitisation by inhalation and skin contact

**Specific target organ toxicity** Data are conclusive but insufficient for classification (STOT) – single exposure

**Specific target organ toxicity** Data are conclusive but insufficient for classification **(STOT) – repeated exposure** 

**Carcinogenicity** Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

**Reproductive Toxicity** Data are conclusive but insufficient for classification

**Aspiration Hazard** Data are conclusive but insufficient for classification

#### Information on other hazards

#### **Endocrine disrupting properties**

No information available

#### Other information

No information available

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## SECTION 12: Ecological information

#### **Toxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Proteinase, tritirachium album serine	No data available	No data available	No data available	No data available	No data available

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

Mobility in soil No information available.

#### Results of PBT and vPvB assessment

No information available.

#### **Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors

#### Other adverse effects

No information available.

## SECTION 13: Disposal considerations

#### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION 14: Transport information

## IATA / ADR / DOT-US / IMDG

Not classified as dangerous in the meaning of transport regulations

UN number or ID number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

Marine pollutant

No

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## **Environmental hazards**

Not Applicable

#### Special precautions for user

Not Applicable

## Maritime transport in bulk according to IMO instruments

Not Applicable.

## SECTION 15: Regulatory information

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

**Substances of Very High Concern** 

None

Substance subject to authorisation per REACH Annex XIV

None

Restricted substances under EC 1907/2006, Annex XVII

None

Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)

None

Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)

None

EU - Substances Depleting the Ozone layer (1005/2009)

None

German Water hazard classes (Wassergefährdungsklassen)

## Other International Inventories

	Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
Ī	Proteinase, tritirachium album serine	Listed	=	=	-

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Proteinase, tritirachium album serine	-	-		-

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Chemical safety assessment No Chemical safety assessment has been carried out.	
Revision number 6	Revision date 13-Apr-202

#### SECTION 16: Other information

Reason for revision Update according to Commission Regulation EU No. 2020/878

Revision number

Revision date 13-Apr-2021

#### References

ECHA: http://echa.europa.eu/TOXNET: http://toxnet.nlm.nih.gov/

eChemPortal: http://www.echemportal.org/

• LOLI database: https://www.chemadvisor.com/loli-database

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Respiratory sensitiser Category 1 Calculation method

#### Abbreviations and acronyms

TWA - Time-Weighted Average

**OELs** - Occupational Exposure Limits

STEL - Short Term Exposure Limit

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**CEPA** - Canadian Environmental Protection Act

**EPA** - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration of the US Department of Labour

IATA - International Air Transport Association

**DOT** - Department of Transportation

IMDG - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

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