

# Safety Data Sheet

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

#### Identification of the substance or mixture

Product code Product name C5001 Proteinase K Solution

#### Company/undertaking identification

Thermo Fisher Scientific Baltics UAB V.Graiciuno 8 LT-02241 Vilnius Lithuania Tel.: +370 5 2602131 Fax.: +370 5 2602142 Life Technologies 5250 Mainway Drive Burlington, ONT CANADA L7L 6A4 800/263-6236

24 hour Emergency Response for Hazardous MaterialsWithin the USA + Canada: 1-800-424-9300 and[or Dangerous Goods] Incident. Spill, Leak, Fire,1-703-527-3887Exposure, or Accident. Call CHEMTRECOutside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

For research use only. Not for use in diagnostic procedures

**SECTION 2: Hazards identification** 

## GHS - Classification

Signal Word DANGER

Hazard pictograms



Health hazards Respiratory sensitization

Category 1

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# **Physical hazards**

Not classified

## **Environmental hazards**

Not classified

## **Hazard Statements**

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

## **Precautionary Statements**

## Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P284 - In case of inadequate ventilation wear respiratory protection

## Response

DO NOT USE: P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

#### Storage

Not Applicable

## Disposal

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

## Other hazards

Not Applicable

HMIS

Health	4
Flammability	0
Reactivity	0

# SECTION 3: Composition/information on ingredients

Component	CAS No.	Common name	EINECS-No	Weight-%
Proteinase K 39450-01-6 (1-5)	39450-01-6	-	254-457-8	1 - 5
Glycerol 56-81-5(40 - 70)	56-81-5	-	200-289-5	40 - 70

We recommend handling all chemicals with caution.

## SECTION 4: First aid measures

## Description of first aid measures

Skin contact Eye contact	Rinse with plenty of water. Immediate medical attention is not required. 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 None.

# **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.

Protective equipment and precautions 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 detail

## **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 labeled containers.

### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

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

## Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Proteinase K	None	None	None	None
Glycerol	15 mg/m³ 5 mg/m³	None	None	None

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Proteinase K	None	None	None
Glycerol	None	None	None

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

#### Exposure controls

## Personal Protective 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.

Information on basic physical and chemical properties

# Other information

No data available.

	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 toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proteinase K	No data available	No data available	No data available
Glycerol	= 12600 mg/kg Oral	No data available	>570mg/m3(Rat)

## Principal Routes of Exposure

Acute toxicity	Data are conclusive but insufficient for classification
Skin corrosion/irritation	Data are conclusive but insufficient for classification
Serious eye damage/irritation	Data are conclusive but insufficient for classification
Respiratory or skin sensitization	Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT) – single exposure	Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT) – repeated exposure	Data are conclusive but insufficient for classification
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

# **SECTION 12: Ecological information**

## Ecotoxicity

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 K	No data available	No data available	No data available	No data available	No data available
Glycerol	No data available	Daphnia magna EC50>500 mg/L (24 h)	No data available	No data available	logPow-1.76

Mobility in soil No information available.

Persistence and degradability No information available.

**Bioaccumulative potential** No information available.

## Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### Other adverse effects No information available.

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Product code	C5001

# 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 UN proper shipping name Transport hazard class(es) Packing group Not Applicable Not Applicable Not Applicable Not Applicable

#### Environmental hazards Not Applicable

Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

## **SECTION 15: Regulatory information**

Component	US TSCA
Proteinase K	-
39450-01-6(1-5)	
Glycerol	Listed
56-81-5 ( 40 - 70 )	

# **US Federal Regulations**

# **SARA 313**

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

## US State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## WHMIS Hazard Class

D2A - Very toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## National Regulations - Brazil

Chemical Name	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Proteinase K	39450-01-6	Not Listed	Not Listed
Glycerol	56-81-5	Not Listed	Not Listed

## **SECTION 16: Other information**

Reason for revision	SDS sections updated.	
Revision number	1	
Revision date	29-Mar-2019	

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#### **References**

• ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

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

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

"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"

End of Safety Data Sheet