nologies

Safety Data Sheet

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

Identification of the substance or mixture

Product code	25530015
Product name	PROTEINASE K

Company/undertaking identification

Life Technologies Corporation 5781 Van Allen Way PO Box 6482 Carlsbad, CA 92008 +1 760 603 7200 Life Technologies 5250 Mainway Drive Burlington, ONT CANADA L7L 6A4 800/263-6236

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and +1[or Dangerous Goods] Incident. Spill, Leak, Fire,
Exposure, or Accident. Call CHEMTREC703-527-3887
Outside the USA + Canada: +1 703-741-5970

Country specific Emergency Number (if available): CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

For Research Use Only. Not for use in diagnostic procedures.

SECTION 2: Hazards identification

GHS - Classification

Signal Word DANGER

Hazard pictograms



Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1

Physical hazards

Not Hazardous

Revision date	01-Aug-2017
Product code	25530015

Environmental hazards

Not Hazardous

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

Prevention

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

Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention

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	EINECS-No	Weight %
Proteinase K	39450-01-6	254-457-8	98-100
39450-01-6 (98-100)			

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.
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

H315 - Causes skin irritation H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Indication of any immediate medical attention and special treatment needed

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO2). Foam. Dry chemical. No information available.

Special hazards arising from the substance or mixture Not known.

Advice for fire-fighters

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

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

See section 8 for more information.

Precautions for safe handling

Use personal protective equipment as required. .

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.

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
Engineering meas	ures Ensure ade	quate ventilation, espec	ially in confined areas	
Exposure controls				
Personal Protectiv	e Equipment			
Respiratory protect		nsufficient ventilation we nder appropriate govern		oonents tested and
Hand protection	Wear suitab	le gloves Glove materia	I: Compatible chemical-	resistant gloves.
Eye protection	Tight sealin	g safety goggles		
Skin and Body Pro	otection Wear suitab	le protective clothing		
Hygiene measures	Handle in a	ccordance with good inc	lustrial hygiene and safe	ety practice
Environmental exp	posure controls			

No special environmental precautions required.

Information on basic physical and chemical properties

Appearance Odor pH Melting point / melting range Boiling point / boiling range Flash point Autoignition Temperature Decomposition temperature Evaporation rate Flammability (solid, gas) Upper explosion limit Lower explosion limit Vapor Pressure Relative density Specific gravity Solubility Partition coefficient: n-octanol/water Explosive properties	Solid No data available °C Mixture has not been tested °C Mixture has not been tested No data available Mixture has not been tested Mixture has not been tested Mixture has not been tested Mixture has not been tested No data available No data available No data available No data available No data available No data available Mixture has not been tested Mixture has not been tested No data available No data available Mixture has not been tested		
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	No information available.		
Incompatible materials	No dangerous reaction known under conditions of normal use.		
Hazardous decomposition products	No data available.		

SECTION 11: Toxicological information

Information on toxicological effects

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)	
Proteinase K	No data available	No data available	No data available	
Principal Routes of Exposur	e			
Irritation	Serious Eye Damage	Serious Eye Damage / Eye Irritation, Skin irritation		
Corrosivity	Conclusive but not suf	Conclusive but not sufficient for classification		
Sensitization	May cause sensitization	May cause sensitization by inhalation		
STOT - Single Exposure	Conclusive but not suf	Conclusive but not sufficient for classification		
STOT - Repeated Exposu	re Conclusive but not suf	Conclusive but not sufficient for classification		
Carcinogenicity	Conclusive but not suf	Conclusive but not sufficient for classification		
Mutagenicity	Conclusive but not suf	Conclusive but not sufficient for classification		
Reproductive toxicity	Conclusive but not suf	Conclusive but not sufficient for classification		
Aspiration hazard	Conclusive but not suf	Conclusive but not sufficient for classification		
	SECTION 12: Eco	logical information		

Toxicity

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

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Proteinase K	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.

Results of PBT and vPvB assessment

No information available.

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 regulated in the meaning of transport regulations.

UN number	Not Applicable
UN proper shipping name	Not Applicable
Transport hazard class(es)	Not Applicable
Packing group	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 (98-100)	

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 MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision Revision number Revision date SDS sections updated. 7 01-Aug-2017

Revision date01-Aug-2017Product code25530015

Page 7/8 Product name PROTEINASE K For Research Use Only. Not for use in diagnostic procedures.

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

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End of Safety Data Sheet