Code: E1402 MSDS MSDS-Proteinase K-E-

No.: 00

Issue date: 2021/10/07

Code : E1402

MATERIAL SAFETY DATA SHEET

IDENTITY: Proteinase K

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT NAME : Proteinase K

MANUFACTURER : Precision System Science Co.,Ltd.

Address : 88, Kamihongou, Matsudo-shi, Chiba 271-0064 JAPAN

Telephone Number :

For Information : +81-47-303-4801 Emergency : +81-47-303-4800 E-Mail : service@pss.co.jp

MSDS No. : MSDS-Proteinase K-E-00

2. HAZARDS IDENTIFICATION

REAGENT	SINGLE/	GHS CLASSIFICATION				
NAME	MIXTURE	Class	Category	Symbol	H-Code	
Proteinase K	Mixture	Allergic or asthmatic symptoms Causes eye irritation			H334 H320	

SIGNAL WORD: Danger HAZARD STATEMENTS:

Causes eye irritation

May cause allergy or asthma symptoms or breathing difficulties inhaled

PRECAUTIONARY STATEMENTS:

REAGENT NAME	SINGLE/ MIXTURE	P-code	Precautionary statement	
Proteinase K	Mixture	P261	Do not get in eyes, on skin, or on clothing.	
		P264	Wash hand thoroughly after handling.	
		P272	Contaminated work clothing should not be allowed out of the workplace.	
		P285	In case of inadequate ventilation wear respiratory protection.	
		P304+P341	IF INHALED: If breathing is difficult, 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/doctor.	

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REAGENT NAME	SINGLE/ MIXTURE	P-code	Precautionary statement	
		P337+P313	IF eye irritation persists: Get medical advice/attention.	
		P305+P351+	IF IN EYES: Rinse cautiously with water for several minutes.	
		P338	Remove contact lenses if present and easy to do - continue	
			rinsing.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMILCAL IDENTIT	CAS No.	Content (%)	EINECS No.	TSCA (Listed or not Listed)
Proteinase K	39450-01-6	<5	254-457-8	not Listed
Glycerol	56-81-5	<60	200-289-5	Listed

4. FIRST AID MEASURES

GENERAL ADVICE: Wash off immediately with soap and plenty of water. In the case of respirable dust and/or

fumes, use self-contained breathing apparatus and dust impervious protective suit. Use

personal protective equipment.

INHALATION: Move victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped,

administer artificial respiration. Maintain normal body temperature with a blanket. If irritation

persists, transport to a hospital immediately.

SKIN CONTACT: Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap

to help assure removal. If irritation persists, consult a physician.

EYE CONTACT: Remove any contact lenses at once. Flush eyes well with flooding amounts of running water

for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers.

If irritation persists, consult a physician.

INGESTION: Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an

unconscious person. Transport to a hospital immediately.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical powder, alcohol resistant

foam, water

FIRE & EXPLOSION HAZARDS: Flammable liquid. Hazardous toxic and irritating fumes

or smoke may be emitted. Vapors may travel

considerable distance to ignition source and flash back.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Firemen should wear normal protective equipment (full

bunker gear) and positive-pressure self-contained

breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

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PERSONAL PRECAUTIONS: Use personal protective equipment. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Should not be released into the environment.

METHODS FOR CLEANING UP: Sweep up or vacuum up spillage and collect in suitable container for

disposal.

7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated

exposure. Handle material with suitable protection away from source of heat

or ignition and use non-sparking type tools.

CONDITIONS FOR SAFE STORAGE: Store away from sunlight in well-ventilated dry place at room temperature

(preferably cool place). Keep container tightly closed.

INCOMPATIBILITIES: Bases, oxidizers, reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Hand protection

Remarks : The choice of an appropriate glove does not only depend on its material

but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions

(mechanical strain, duration of contact).

Eye protection : Safety glasses

Skin and body protection: Choose body protection according to the amount and concentration of the

dangerous substance at the workplace. Footwear protecting against

chemicals

Hygiene measures: Keep away from food and drink. When using do not eat, drink or smoke

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR : aqueous solutions

pH: 7.0-8.0

MELTING POINT:

No data available
INITIAL BOILING POINT:

No data available
FLASH POINT:

No data available
FLAMMABILITY (solid, gas):

No data available
EXPLOSIVE LIMITS:

No data available
VAPOR PRESSURE:

No data available
VAPOR DENSITY:

No data available

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RELATIVE DENSITY:

No data available

SOLUBILITY IN WATER

No data available

PARTITION COEFFICIENT:

No data available

AUTOIGNITION TEMPERATURE:

No data available

DECOMPOSITION TEMPERATURE:

No data available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID : No data available INCOMPATIBILE MATERIALS No data available

HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition if stored and applied as directed

11. TOXICOLOGICAL INFORMATION

PK solution as glycerol

ACUTE TOXICITY:

IRRITATION:

No data available

MUTATION:

No data available

REPRODUCTIVE EFFECTS:

No data available

TUMORIGENIC:

No data available

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data available
PERSISTENCE AND DEGRADABILITY: No data available.
BIOACCUMULATION POTENTIAL: No data available
MOBILITY IN SOIL: No data available
OTHER ADVERSE EFFECTS: No data available

13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER)

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules)

After contents are completely removed, dispose of its container at hazardous or special waste collection point. (in accordance with local/regional/national/international regulation).

14. TRANSPORT INFORMATION

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

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IMDG: Not dangerous goods IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

No data available

15. REGULATORY INFORMATION

Ensure this material in compliance with federal requirement and ensure conformity local regulations.

16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Reference

NITE-CHRIP https://www.nite.go.jp/chem/chrip/chrip search/srhInput

European Chemicals Bureau http://ecb.jrc.ec.europa.eu/

Registry of Toxic Effects of Chemical Substances NIOSH(1985-1986)

The above information is believed to be correct to be the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and risk and PSS shall not be held liable for any damage resulting from handling or from contact with the above material.