

Safety Data Sheet

Version 1.1

Revision date: Jan 21, 2018



Proteinase K

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier: Proteinase K

Product code: #NKR223

Manufacturer's name and address: Luna Nanotech Inc., 439 University Avenue, 5th Floor
Toronto, ON M5G 1Y8

Business telephone number: 1-800-474-4055

Emergency telephone numbers: Canada: Canutec 1-888-226-8832
USA: Chemtrec 1-800-424-9300

Product use: For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: HAZARDS IDENTIFICATION

Ingredients: Proteinase K

CAS #: 9003-98-9

GHS classification

Respiratory sensitization: Category 1

Signal word: Danger

Hazard statements

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280: Wear protective gloves and eye protection.
P284: Wear respiratory protection.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

Other hazards None known



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous ingredients

Chemical name: Proteinase K
CAS number: 39450-01-6
EC number: 3.4.21.64

Safety Data Sheet

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Proteinase K

Concentration: 0.5 – 10 % w/v

SECTION 4: FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact:	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SECTION 5: FIREFIGHTING MEASURES

Conditions of flammability:	Not Flammable or combustible
Flash point:	Not determined
Means of extinction:	Use water spray, alcohol-resistant foam, dry chemical or CO ₂
Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Explosion data	
Sensitivity to mechanical impact:	Not sensitive
Sensitivity of static discharge:	Not sensitive
Hazardous decomposition products formed under fire conditions:	Not determined

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Avoid contact with the skin and the eyes. Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions:	Do not let product enter drains.

Proteinase K

Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

SECTION 7. HANDLING AND STORAGE

Handling: Wear personal protective equipment. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: If exposure limits are exceeded or irritation is experienced, respiratory protection approved under NIOSH/MSHA must be worn. For high airborne contaminant concentration positive-pressure supplied air respirators may be required.

Eye protection: Wear safety glasses with side shields conforming to EN166. Avoid contact with the eyes.

Skin and body protection: Wear protective gloves and clothing.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Specific engineering controls: Use appropriate mechanical exhaust or laboratory fume hood to avoid exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Clear
Odor:	Characteristic
Taste:	Not available
pH:	7.5
Boiling point:	Not available
Melting point:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Explosion limits:	Not available
Specific gravity:	1.1
Vapor pressure:	Not available
Vapor density:	Not available
Volatility:	Not available
Solubility in water:	Not available
Solubility in other solvents:	Not available

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Thermal decomposition: Not available
Viscosity: Not available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Incompatible products: Strong oxidizing agents

Conditions to avoid: Not available.

Hazardous decomposition products

Under fire conditions: Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Product

Acute oral toxicity: Not available
Acute inhalation toxicity: Not available
Acute dermal toxicity: Not available

Ingredients

Guanidine hydrochloride

LD50 oral rat: Not available
LD50 dermal rabbit: Not available

Skin corrosion/irritation

Product: May cause skin irritation.

Serious eye damage/eye irritation

Product: Not available

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

STOT-singe exposure: Not available

STOT-repeated exposure: Not available

Aspiration toxicity: Not available

Further information: Not available

Proteinase K

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available

Toxicity to fish: Not available

Persistence and degradability: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Product: The product should not be allowed to enter drains, watercourses or the soil. Disposing should be performed in compliance with local and national regulation by a licensed waste management company.

Contaminated packaging: Dispose of as unused product. Do not reuse empty containers.

SECTION 14: TRANSPORT INFORMATION

DOT (US): Not regulated as dangerous good.

UNRTG: Not regulated as dangerous good.

IATA: Not regulated as dangerous good.

IMDG: Not regulated as dangerous good.

SECTION 15: REGULATORY INFORMATION

Not regulated.

SECTION 16: OTHER INFORMATION

The above information provided in this Materials Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guidance for safe handling, processing, use, transportation, storage, disposal and release. This information is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Material Safety Data Sheet