

# Safety Data Sheet

Version 1.1

Revision date: June 5, 2018



## RNase A Solution

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier:** RNase A Solution

**Product code:** #NKR225

**Manufacturer's name and address:** Luna Nanotech Inc., 439 University Avenue, 5<sup>th</sup> 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:** None

**GHS classification:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:** None

**Other hazards:** None known

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

**Hazardous ingredients**

Chemical name: RNase A  
CAS number: 9001-99-4  
EC number: 3-1-27-5  
Concentration: 0.5 – 10 % w/v

Chemical name: Glycerol  
CAS number: 56-81-5  
EC number: 200-289-5  
Concentration: 40 – 70 % w/v

### SECTION 4: FIRST AID MEASURES

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

## SECTION 5: FIREFIGHTING MEASURES

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use personal protective equipment. Avoid contact with the skin and the eyes. Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation.
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up:</b>	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.

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### 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
- Thermal decomposition:** Not available
- Viscosity:** Not available

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### SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions

**Incompatible products:** Not available.

**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-single exposure:** Not available

**STOT-repeated exposure:** Not available

**Aspiration toxicity:** Not available

**Further information:** Not available

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Not available

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**Toxicity to fish:** Not available

**Persistence and degradability:** Not available

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Glycerol	No data available	Daphnia magna EC50>500 mg/L (24 h)	No data available	No data available	logPow<=-1.7

## 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**