# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2026
Date Updated: January 14, 2026

## SECTION 1. - - - - - - - - - PRODUCT AND COMPANY IDENTIFICATION- - - - - - - - - -

| | |
|---|---|
| **Product Name** | High Reverse Transcriptase (RNase H-) (10,000U) |
| **Product Code(s)** | 9K-005-0005 |
| **Recommended Use** | For Laboratory Research Use Only<br>Not for Human or Animal Drug Use |
| **Supplier** | Bio Basic Inc. |
| **Address** | 20 Konrad Crescent, Markham, Ontario,<br>Canada, L3R 8T4 |
| **Telephone** | (905) 474 4493 |
| **Fax** | (905) 474 5794 |
| **For Chemical Emergency Phone#** | (416) 995 9730 |

## SECTION 2. - - - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - - -

**Classification of the substance or mixture**

Not a hazardous substance or mixture.

**GHS Label elements, including precautionary statements**

Not a hazardous substance or mixture.

**Hazards not otherwise classified (HNOC) or not covered by GHS** - none

## SECTION 3. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - - -

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## SECTION 4. - - - - - - - - - - FIRST-AID MEASURES- - - - - - - - - -

**If inhaled**
If exposed to excessive levels of dusts or fumes, remove to fresh air. If cough or other symptoms develop, get medical assistance. If substance is ingested or inhaled, do not use artificial respiration with mouth-to-mouth method. Please use appropriate respiratory medical equipment.

**In case of skin contact**
Remove contaminated clothing and shoes. In case of contact with skin, immediately flush skin with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin. Seek immediate medical assistance.

**In case of eye contact**
Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical assistance.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water.

**Advice to physician**
Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## SECTION 5. - - - - - - - - - -FIREFIGHTING MEASURES- - - - - - - - - -

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, or carbon dioxide. Use dry sand or earth to smother fire.

**Special hazards arising from the chemicals**
Containers may explode when heated. Some may burn but none ignite readily. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Can decompose at high temperatures forming toxic gases.

**Special protective equipment for firefighters**
Rescuers should wear appropriate protective equipment. Evacuate area and fight fire from a safe distance. Substance may be transported in a molten form. For the disposal of firefighting water, dig a ditch and lock it so that no material is scattered. Move containers from fire area if you can do it without risk. Fire involving Tanks: Fight fire from maximum distance or use fire apparatus. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Stay away from tanks engulfed in fore. For large fires, use unmanned firefighting equipment and allow them to burn if it is not possible.

**Explosion data - sensitivity to mechanical impact**
No data available

**Explosion data - sensitivity to static discharge**
No data available

## SECTION 6. - - - - - - - - - -ACCIDENTAL RELEASE MEASURES- - - - - - - - - -

**Personal precautions**
Avoid breathing dust, fumes, gas, mist, steam, and spray. Immediately wipe off spillage and follow protective precautions. Remove all ignition sources. Stop the leak if it is not dangerous. Do not touch the container or leaks without wearing suitable protective equipment. Cover with plastic sheet to prevent diffusion. Note the substances and conditions to avoid.

**Environmental precautions**
Prevent entry into waterways, sewers, basements or confined areas.

**Methods and materials for containment and cleaning up**
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Remove dust and moisten with water to prevent scattering. Absorb the liquid and scrub the area with detergent and water.

## SECTION 7. - - - - - - - - - -HANDLING AND STORAGE- - - - - - - - - -

**Precautions for safe handling**
Avoid breathing dust/fume/gas/mist/vapours/spray. Use only in a well-ventilated area. Follow all SDS/label precautions even after container is emptied because they may retain product residues. Use care in handling/storage. Loosen closure cautiously before opening. Please note that materials and conditions to be avoided. For handling, refer to engineering control/personal protection section.

**Conditions for safe storage**
It is recommended to store at -20°C ± 5°C. Keep container tightly closed in a well-ventilated place. Empty drums should be completely drained, properly bunged, and promptly returned to a drum conditioner, or properly disposed of.

## SECTION 8. - - - - - - - - - -EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - - - - - - -

**Appropriate engineering controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit**.**

### Personal protective equipment

#### Respiratory protection
Wear respiratory protection according to the physicochemical properties of the material being exposed. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures
General industrial hygiene practice.

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

## SECTION 9. - - - - - - - - - -PHYSICAL AND CHEMICAL PROPERTIES- - - - - - - - - -

| | |
|---|---|
| Appearance | Form: liquid<br>Colour: colourlessness |
| Odour | Odourless |
| Odour Threshold | No data available |
| pH | No data available |
| Melting point/freezing point | No data available |
| Boiling point/range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapour pressure | No data available |
| Solubility | No data available |
| Vapour density | No data available |
| Specific gravity | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |

## SECTION 10. - - - - - - - - - -STABILITY AND REACTIVITY- - - - - - - - - -

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
Can decompose at high temperatures forming toxic gases. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Inhalation of dust may cause toxicity. Some may burn but none ignite readily. Containers may explode when heated. Fire may produce irritating, corrosive and/or toxic gases.

**Conditions to avoid**
Ignition source (heat, spark, flame, etc.)

**Materials to avoid**
Combustible materials, reducing substance. During burning, pyrolysis or combustion can produce irritating and highly toxic gases. Corrosive/toxic fume

**Hazardous decomposition products**
Irritating, corrosive and/or toxic gas.

## SECTION 11. - - - - - - - - - -TOXICOLOGICAL INFORMATION- - - - - - - - - -

**Acute toxicity**
**Oral:** No data available
**Inhalation:** No data available
**Dermal:** No data available

**Skin corrosion/irritation**
No data available

**Serious eye damage/eye irritation**
Eyes: No data available

**Respiratory or skin sensitization**
No data available

**Germ cell mutagenicity**
No data available

**Carcinogenicity**
No data available

**Reproductive toxicity**
No data available

**Specific target organ toxicity - single exposure**
No data available

**Specific target organ toxicity - repeated exposure**
No data available

**Aspiration hazard**
No data available

**Potential health effects**

| | |
|---|---|
| **Inhalation** | May be harmful if inhaled. May cause respiratory tract irritation. |
| **Ingestion** | May be harmful if swallowed. |
| **Skin** | May be harmful if absorbed through skin. May cause skin irritation. |
| **Eyes** | May cause eye irritation. |

**Signs and Symptoms of Exposure**
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12. - - - - - - - - - -ECOLOGICAL INFORMATION- - - - - - - - - -

**Toxicity**
No data available

**Persistence and degradability**
No data available

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**PBT and vPvB assessment**
No data available

**Other adverse effects**
No data available

## SECTION 13. - - - - - - - - - -DISPOSAL CONSIDERATIONS- - - - - - - - - -

**Product**
If specified in the waste management law, dispose of contents and containers in accordance with local regulations.

**Contaminated packaging**
Dispose of as unused product.

## SECTION 14. - - - - - - - - - -TRANSPORT INFORMATION- - - - - - - - - -

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods

## SECTION 15. - - - - - - - - - REGULATORY INFORMATION - - - - - - - - - -

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

## SECTION 16. - - - - - - - - - - OTHER INFORMATION- - - - - - - - - - - -

Further information: no limited for paper copy, just for internal uses.
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS**