

SAFETY DATA SHEET

Date: April 1, 2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: RNase-X Decontamination Solution
Catalog Number: 22028
Unit Size: 250 mL
Manufacturer/Supplier: Biotium, Inc.
46117 Landing Parkway, Fremont, CA 94538, USA
Phone: 1-510-265-1027, Fax: 1-510-265-1352
Web: <http://www.biotium.com>

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

2. HAZARDS IDENTIFICATION

GHS classification None
Signal word None
Health hazards None
Physical hazards None
Hazard statements None
Precautionary statements None
GHS hazard pictogram None

WHMIS classification None

NFPA Rating
Health hazard: 0
Fire: 0
Reactivity Hazard: 0

Classification according to Regulation (EC) No 1272/2008[CLP] None
Labeling according to Regulation (EC) No 1272/2008[CLP]
Hazard pictogram None
Signal word None
Hazard statements None
Precautionary statements None

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS No. | EC No. | Weight % | Classification |
|------------------|-----------|-----------|----------|--|
| Sodium Hydroxide | 1310-73-2 | 215-185-5 | <1% | Not classified at concentrations present |

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

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

Special protective equipment for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Substance: Sodium hydroxide

CAS no. 1310-73-2

| Country | Australia | Austria | Belgium | Canada - Ontario | Canada - Québec | Denmark | Finland |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Limit value, 8hours | | 2 (1) mg/m ³ | 2 (1) mg/m ³ | | | 2 mg/m ³ | |
| Limit value, short term | 2 (1) mg/m ³ | 4 (1) mg/m ³ | | 2 (1) mg/m ³ | 2 (1) mg/m ³ | 2 (1) mg/m ³ | 2 (1) mg/m ³ |

| Country | France | Hungary | Ireland | Japan | Latvia | New Zealand | Norway |
|-------------------------|---------------------|---------------------|-------------------------|-------------------------|-----------------------|-------------------------|-------------------------|
| Limit value, 8hours | 2 mg/m ³ | 2 mg/m ³ | | 2 (1) mg/m ³ | 0.5 mg/m ³ | | |
| Limit value, short term | | 2 mg/m ³ | 2 (1) mg/m ³ | | | 2 (1) mg/m ³ | 2 (1) mg/m ³ |

| Country | People's Republic of China | Poland | Romania | Singapore | South Korea | Spain | Sweden |
|-------------------------|----------------------------|-----------------------|-------------------------|---------------------|-------------------------|---------------------|----------------------------|
| Limit value, 8hours | | 0.5 mg/m ³ | 1 mg/m ³ | | | 2 mg/m ³ | 1 (1) mg/m ³ |
| Limit value, short term | 2 (1) mg/m ³ | 1 mg/m ³ | 3 (1) mg/m ³ | 2 mg/m ³ | 2 (1) mg/m ³ | | 2 (1)(2) mg/m ³ |

| Country | Switzerland | United Kingdom | USA-NIOSH | USA-OSHA |
|-------------------------|-------------|----------------|-------------|----------|
| Limit value, 8hours | 2 (1) mg/m3 | | | 2 mg/m3 |
| Limit value, short term | 2 (1) mg/m3 | 2 mg/m3 | 2 (1) mg/m3 | |

Australia (1) Ceiling limit value

Austria (1) Inhalable aerosol

Belgium (1) Additional indication "M" means that irritation occurs when the exposure exceeds the limit value or there is a risk of acute poisoning. The work process must be designed in such a way that the exposure never exceeds the limit value. For evaluation, the sampled period should be as short as possible. However, the sampled period shall be long enough to perform a reliable measurement. The measured result shall be related to the considered period.

Canada - Ontario (1) Ceiling limit value

Canada - Québec (1) Ceiling limit value

Denmark (1) Ceiling limit value

Finland (1) Ceiling limit value

Ireland (1) 15 minutes reference period

Japan (JSOH) (1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day.

New Zealand (1) Ceiling limit value

Norway (1) Ceiling limit value

People's Republic of China (1) Ceiling limit value

Romania (1) 15 minutes average value

South Korea (1) Ceiling limit value

Sweden (1) Inhalable fraction (2) 15 minutes average value

Switzerland (1) Inhalable aerosol

USA – NIOSH (1) Ceiling limit value (15 min)

Personal protective equipment

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.

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------|----------------------------------|
| Chemical Name | RNase-X Decontamination Solution |
| Appearance | Clear liquid |
| Odor | No data available |
| Odor threshold | No data available |
| pH | No data available |
| Melting point/freezing point | No data available |
| Boiling point | No data available |

| | |
|---------------------------------------|-------------------|
| Flash point | No data available |
| Evaporate rate | No data available |
| Flammability | No data available |
| Explosive limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Solubility | No data available |
| Partition coefficient:n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

No data available

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 None

Inhalation LC50 None

Dermal LD50 None

Other information on acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

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.

Additional Information

RTECS: None

12. ECOLOGICAL INFORMATION

Toxicity No information available
Persistence and degradability No information available
Bioaccumulative potential No information available
Mobility in soil No information available
Results of PBT and vPvB assessment No information available
Other adverse effects No information available
Additional information No information available

13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

14. TRANSPORT INFORMATION

IATA, IMDG, DOT (US), TDG Not dangerous goods during transportation
UN number None
UN proper shipping name None
Transport hazard class None
Packing group None
Environmental hazards None
Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code None
Special precaution for user None

15. REGULATION INFORMATION

US Federal Regulations
US Toxic Substances Control Act (TSCA): Not listed
SARA 302: No chemicals were found.
SARA 313: No chemicals were found.
SARA 311/312: No chemicals were found

WHMIS Hazard Class None

16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008
Refer to section 2 and section 3

Prepared by: Regulatory Department
Biotium Inc.

Version no. 1
Revision date (Initials)
Reason for revision

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.