

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Identification of the substance or mixture**

**Product code** C3533  
**Product name** Rnase A

**Company/undertaking identification**

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**24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident. Spill, Leak, Fire, Exposure, or Accident. Call CHEMTREC** Within the USA + Canada: 1-800-424-9300 and 1-703-527-3887  
Outside the USA + Canada: 1-703-741-5970

**Country Specific Emergency Number (if available):**

**For research use only. Not for use in diagnostic procedures**

## SECTION 2: Hazards identification

**GHS Classification**

**Signal Word**  
None

**Hazard pictograms**

None

**Health hazards**  
Not Hazardous

**Physical hazards**  
Not Hazardous

**Environmental hazards**  
Not Hazardous

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**Hazard Statements**

Not Applicable

**Precautionary Statements****Prevention**

Not Applicable

**Response**

Not Applicable

**Storage**

Not Applicable

**Disposal**

Not Applicable

**Other hazards**

Not Applicable

**HMIS**

|              |   |
|--------------|---|
| Health       | 0 |
| Flammability | 0 |
| Reactivity   | 0 |

**SECTION 3: Composition/information on ingredients**

| Chemical Name | CAS No. | Common name    | EINECS-No | Weight-% |
|---------------|---------|----------------|-----------|----------|
| Glycerol      | 56-81-5 | Not applicable | 200-289-5 | 40-70    |

We recommend handling all chemicals with caution.

## SECTION 4: First aid measures

### Description of first aid measures

|                           |   |
|---------------------------|---|
| <b>Skin contact</b>       | Rinse skin with water. Immediate medical attention is not required.   |
| <b>Eye contact</b>        | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                        |
| <b>Ingestion</b>          | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| <b>Inhalation</b>         | Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.      |
| <b>Notes to Physician</b> | Treat symptomatically.  |

### Most important symptoms and effects, both acute and delayed

Not Applicable

### Indication of any immediate medical attention and special treatment needed

None.

## SECTION 5: Firefighting measures

### Extinguishing media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. |
| <b>Unsuitable extinguishing media</b> | No information available.   |

### Special hazards arising from the substance or mixture

Not known

### Advice for firefighters

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation  
Always wear recommended Personal Protective Equipment  
Use personal protection equipment  
See section 8 for more information

### Environmental precautions

No special environmental precautions required.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### Specific end use(s)

For research use only. Not for use in diagnostic procedures.

## SECTION 8: Exposure controls/personal protection

### Control parameters

| Chemical Name | OSHA PEL                                    | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|---------------|---|--------------------|-----------------|------------------|
| Glycerol      | 15 mg/m <sup>3</sup><br>5 mg/m <sup>3</sup> | None               | None            | None             |

| Chemical Name | Brazil - OEL - TWAs (LTs) | Brazil - OEL - Ceilings | Brazil - OEL - Skin Designations |
|---------------|---------------------------|-------------------------|----------------------------------|
| Glycerol      | None                      | None                    | None                             |

**Engineering Measures**      Ensure adequate ventilation, especially in confined areas.

### Exposure controls

#### Personal Protective Equipment

**Respiratory protection**      In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand protection**              Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection**                Tight sealing safety goggles.

**Skin and Body Protection**    Wear suitable protective clothing.

**Hygiene Measures**            Handle in accordance with good industrial hygiene and safety practice

#### Environmental exposure controls

No special environmental precautions required.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|   |                   |            |
|---|-------------------|------------|
| <b>Physical state</b>                             | liquid            |            |
| <b>Color</b>                                      | No data           |            |
| <b>Odor</b>                                       | No data available |            |
| <b>Molecular Weight</b>                           | No data           |            |
| <b>Melting point / melting range</b>              | °C No data        | °F No data |
| <b>Boiling point / boiling range</b>              | °C No data        | °F No data |
| <b>Flammability (solid, gas)</b>                  | No data available |            |
| <b>Lower explosion limit</b>                      | No data           |            |
| <b>Upper explosion limit</b>                      | No data           |            |
| <b>Flash point</b>                                | °C No data        | °F No data |
| <b>Autoignition Temperature</b>                   | °C No data        | °F No data |
| <b>Decomposition temperature</b>                  | °C No data        | °F No data |
| <b>pH</b>   | No data available |            |
| <b>Evaporation rate</b>                           | No data           |            |
| <b>Viscosity</b>                                  | No data           |            |
| <b>Solubility</b>                                 | No data available |            |
| <b>Partition coefficient:<br/>n-octanol/water</b> | No data available |            |
| <b>Vapor Pressure</b>                             | No data           |            |
| <b>Specific gravity</b>                           | No data           |            |
| <b>Relative density</b>                           | No data           |            |
| <b>Vapor density</b>                              | No data           |            |
| <b>Explosive properties</b>                       | No data           |            |
| <b>Oxidizing properties</b>                       | No data           |            |
| <b>Particle characteristics</b>                   | No data           |            |

### Other information

#### Information with regard to physical hazard classes

No information available

#### Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | None known.   |
| <b>Chemical stability</b>                 | Stable under normal conditions.                             |
| <b>Possibility of hazardous reactions</b> | Hazardous reaction has not been reported.                   |
| <b>Conditions to avoid</b>                | No information available.                                   |
| <b>Incompatible materials</b>             | No dangerous reaction known under conditions of normal use. |
| <b>Hazardous decomposition products</b>   | No data available.  |

## SECTION 11: Toxicological information

### Information on toxicological effects

| Chemical Name | Oral LD50           | Dermal LD50       | Inhalation LC50             |
|---------------|---------------------|-------------------|-----------------------------|
| Glycerol      | = 12600 mg/kg (Rat) | > 10 g/kg(Rabbit) | >570mg/m <sup>3</sup> (Rat) |

### Principal Routes of Exposure

|  |  |
|--|--|
| <b>Acute toxicity</b>  | Data are conclusive but insufficient for classification. |
| <b>Skin corrosion/irritation</b>                                 | Data are conclusive but insufficient for classification  |
| <b>Serious eye damage/irritation</b>                             | Data are conclusive but insufficient for classification  |
| <b>Respiratory or skin sensitization</b>                         | Data are conclusive but insufficient for classification  |
| <b>Specific target organ toxicity (STOT) – single exposure</b>   | Data are conclusive but insufficient for classification  |
| <b>Specific target organ toxicity (STOT) – repeated exposure</b> | Data are conclusive but insufficient for classification  |
| <b>Carcinogenicity</b>   | Data are conclusive but insufficient for classification  |
| <b>Germ cell mutagenicity</b>                                    | Data are conclusive but insufficient for classification  |
| <b>Reproductive toxicity</b>                                     | Data are conclusive but insufficient for classification  |
| <b>Aspiration hazard</b>   | Data are conclusive but insufficient for classification  |

## SECTION 12: Ecological information

### Toxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish  | Microtox Data     | log Pow     |
|---------------|-------------------|---|-------------------|-------------------|-------------|
| Glycerol      | No data available | No data available                                   | No data available | No data available | logPow-1.75 |

**Mobility in soil** No information available.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION 14: Transport information

### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

|                                   |                |
|-----------------------------------|----------------|
| <b>UN number or ID number</b>     | Not Applicable |
| <b>UN proper shipping name</b>    | Not Applicable |
| <b>Transport hazard class(es)</b> | Not Applicable |
| <b>Packing group</b>              | Not Applicable |

### Marine pollutant

No

### Environmental hazards

Not Applicable

### Special precautions for user

Not Applicable

### Maritime transport in bulk according to IMO instruments

Not Applicable.

## SECTION 15: Regulatory information

| Component                     | US TSCA |
|-------------------------------|---------|
| Glycerol<br>56-81-5 ( 40-70 ) | Listed  |

### US Federal Regulations

#### SARA 313

This product is not regulated by SARA.

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

### US State Regulations

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| Chemical Name | Massachusetts - RTK<br>(Right-to-Know) | New Jersey - RTK<br>(Right-to-Know) | Pennsylvania - RTK<br>(Right-to-Know) |
|---------------|--|-------------------------------------|---------------------------------------|
| Glycerol      | Listed                                 | Listed                              | Listed                                |

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### WHMIS Hazard Class

Non-controlled

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

### National Regulations - Brazil

| Chemical Name | CAS No. | Brazil - National Agency<br>for Sanitary Surveillance<br>(ANVISA) | Brazil - National List of<br>Carcinogen Agents to<br>Humans (LINACH) |
|---------------|---------|---|--|
| Glycerol      | 56-81-5 | Not Listed  | Not Listed   |

### SECTION 16: Other information

Reason for revision                      SDS sections updated.  
Revision number                            2  
Revision date                                25-Feb-2021

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### References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

### Abbreviations and acronyms

**TWA** - Time-Weighted Average  
**OELs** - Occupational Exposure Limits  
**STEL** - Short Term Exposure Limit  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**CEPA** - Canadian Environmental Protection Act  
**EPA** - Environmental Protection Agency  
**OSHA** - Occupational Safety and Health Administration of the US Department of Labor  
**IATA** - International Air Transport Association  
**DOT** - Department of Transportation  
**IMDG** - International Maritime Dangerous Goods  
**ACGIH** - American Conference of Governmental Industrial Hygienists

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**NIOSH** - National Institute for Occupational Safety and Health  
**AIHA** - American Industrial Hygiene Association  
**HMIS** - Department of Defense Hazardous Materials Information System  
**NTP** - National Toxicology Program  
**IARC** - International Agency for Research on Cancer

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**End of Safety Data Sheet**