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

Identification of the substance or mixture

Product code: AM9780
Product name: RNaseZap

Company/undertaking identification

Thermo Fisher Scientific Baltics UAB
V.Graiciuno 8
LT-02241 Vilnius
Lithuania
Tel.: +370 5 2602131
Fax.: +370 5 2602142

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response for Hazardous Materials 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

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

Hazard Statements
Not Applicable

Precautionary Statements

Prevention
Not Applicable

Response
Not Applicable

Storage
Not Applicable

Disposal
Not Applicable

Other hazards
Not Applicable

HMIS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Common name</th>
<th>EINECS-No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecyl sulfate</td>
<td>151-21-3</td>
<td>Not applicable</td>
<td>205-788-1</td>
<td>0.5-1.5</td>
</tr>
</tbody>
</table>

We recommend handling all chemicals with caution.
SECTION 4: First aid measures

Description of first aid measures

**Skin contact**
Rinse skin with water. Immediate medical attention is not required.

**Eye contact**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion**
Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

**Inhalation**
Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

**Notes to Physician**
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**

**Suitable extinguishing media**

**Unsuitable extinguishing media**
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.

Storage Conditions
Store at 15 °C to 25 °C.

Specific end use(s)
Research Use Only. Not for use in diagnostic procedures.

SECTION 8: Exposure controls/personal protection

Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecyl sulfate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Brazil - OEL - TWAs (LTs)</th>
<th>Brazil - OEL - Ceilings</th>
<th>Brazil - OEL - Skin Designations</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecyl sulfate</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

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

Physical state: liquid
Color: No data
Odor: No data available
Molecular Weight: No data
Melting point / melting range: °C No data, °F No data
Boiling point / boiling range: °C No data, °F No data
Flammability (solid, gas): Not Applicable
Lower explosion limit: No data
Upper explosion limit: No data
Flash point: °C No data, °F No data
Autoignition Temperature: °C No data, °F No data
Decomposition temperature: °C No data, °F No data
pH: Mixture has not been tested
Evaporation rate: No data
Viscosity: No data
Solubility: Soluble in water
Partition coefficient: n-octanol/water: No data available
Vapor Pressure: No data
Specific gravity: No data
Relative density: No data
Vapor density: No data
Explosive properties: No data
Oxidizing properties: No data
Particle characteristics: 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

Reactivity: None known.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Hazardous reaction has not been reported.
Conditions to avoid: None under normal processing.
Incompatible materials: No dangerous reaction known under conditions of normal use.
Hazardous decomposition products: No data available.

Revision date: 25-Jan-2022
Product code: AM9780
Product name: RNaseZap
www.thermofisher.com
## SECTION 11: Toxicological information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecyl sulfate</td>
<td>1288 mg/kg (Rat)</td>
<td>200 mg/kg (Rabbit)</td>
<td>&gt;3900 mg/m³ (Rat)</td>
</tr>
</tbody>
</table>

### Principal Routes of Exposure

- **Acute toxicity**: Data are conclusive but insufficient for classification.
- **Skin corrosion/irritation**: Data are conclusive but insufficient for classification.
- **Serious eye damage/irritation**: Data are conclusive but insufficient for classification.
- **Respiratory or skin sensitization**: Data are conclusive but insufficient for classification.
- **Specific target organ toxicity (STOT) – single exposure**: Data are conclusive but insufficient for classification.
- **Specific target organ toxicity (STOT) – repeated exposure**: Data are conclusive but insufficient for classification.
- **Carcinogenicity**: Data are conclusive but insufficient for classification.
- **Germ cell mutagenicity**: Data are conclusive but insufficient for classification.
- **Reproductive toxicity**: Data are conclusive but insufficient for classification.
- **Aspiration hazard**: Data are conclusive but insufficient for classification.
SECTION 12: Ecological information

Toxicity
Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>Toxicity to fish</th>
<th>Microtox Data</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecyl sulfate</td>
<td>Pseudokirchneriella subcapitata EC50=3.59 - 15.6 mg/L (96 h) Pseudokirchneriella subcapitata EC50=117 mg/L (96 h) Desmodesmus subspicatus EC50=30 - 100 mg/L (96 h) Desmodesmus subspicatus EC50=53 mg/L (72 h)</td>
<td>Daphnia magna EC50=1.8 mg/L (48 h)</td>
<td>No data available</td>
<td>No data available</td>
<td>logPow1.6</td>
</tr>
</tbody>
</table>

Mobility in soil
No information available.

Persistence and degradability
Inherently biodegradable.

Bioaccumulative potential
Material does not bioaccumulate.

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 according to 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 classified as dangerous in the meaning of transport regulations

<table>
<thead>
<tr>
<th>UN number or ID number</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
Environmental hazards
Not Applicable

Special precautions for user
Not Applicable

Maritime transport in bulk according to IMO instruments
Not Applicable.

### SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Component</th>
<th>US TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecyl sulfate</td>
<td>Listed</td>
</tr>
<tr>
<td>151-21-3 (0.5-1.5)</td>
<td></td>
</tr>
</tbody>
</table>

#### 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

**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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Brazil - National Agency for Sanitary Surveillance (ANVISA)</th>
<th>Brazil - National List of Carcinogen Agents to Humans (LINACH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecyl sulfate</td>
<td>151-21-3</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

**Reason for revision**
SDS sections updated.

**Revision number**
9

**Revision date**
25-Jan-2022
For research use only. Not for use in diagnostic procedures.

References
• ECHA: http://echa.europa.eu/
• TOXNET: http://toxnet.nlm.nih.gov/
• eChemPortal: http://www.echemportal.org/
• Lولي database: https://www.chemadvisor.com/loli-database

Abbreviations and acronyms
TWA - Time-Weighted Average
OELs - Occupational Exposure Limits
STEL - Short Term Exposure Limit
DSL/NDSL - 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
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

“The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE”

End of Safety Data Sheet

Revision date 25-Jan-2022
Product code AM9780
Product name RNaseZap
www.thermofisher.com