1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

<table>
<thead>
<tr>
<th>Product code</th>
<th>10328011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>RNASE AWAY</td>
</tr>
</tbody>
</table>

Company/Undertaking Identification

<table>
<thead>
<tr>
<th>Life Technologies</th>
<th>Life Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>5791 Van Allen Way</td>
<td>5250 Mainway Drive</td>
</tr>
<tr>
<td>PO Box 6482</td>
<td>Burlington, ONT</td>
</tr>
<tr>
<td>Carlsbad, CA 92008</td>
<td>CANADA L7L 6A4</td>
</tr>
<tr>
<td>+1 760 603 7200</td>
<td>800/263-6236</td>
</tr>
</tbody>
</table>

24 hour Emergency Response: 866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. Hazards identification

GHS - Classification

Signal Word
WARNING

Health Hazard

<table>
<thead>
<tr>
<th>Skin Corrosion/Irritation</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Physical Hazards
not hazardous

Hazard statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation
Precautionary statements
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P362 - Take off contaminated clothing and wash before reuse
P264 - Wash hands thoroughly after handling
P337 + P313 - If eye irritation persists: Get medical advice/attention

Principle Routes of Exposure/
Potential Health effects
Eyes  Irritating to eyes.
Skin  Irritating to skin.
Inhalation May be harmful by inhalation.
Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Specific effects
Carcinogenic effects  none
Mutagenic effects  none
Reproductive toxicity  none
Sensitization none
Target Organ Effects  None under normal use conditions

HMIS

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>EINECS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkali hydroxide</td>
<td>proprietary</td>
<td>-</td>
<td>0.1-1.0</td>
</tr>
</tbody>
</table>

We recommend handling all chemicals with caution.

4. First aid measures

Skin contact  Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.

Eye contact  Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Ingestion  Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Inhalation  Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.

Notes to physician  Treat symptomatically.
5. Fire-fighting measures

Suitable extinguishing media

Special protective equipment for firefighters
Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions
Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Methods for cleaning up
Soak up with inert absorbent material.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

7. Handling and storage

Handling
Always wear recommended Personal Protective Equipment. No special handling advice required.

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

8. Exposure controls/personal protection

Exposure limits

<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>Alkali hydroxide</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
</tbody>
</table>

Engineering measures
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

  Respiratory protection
In case of insufficient ventilation wear suitable respiratory equipment.

  Hand protection
Impervious gloves.

  Eye protection
Safety glasses with side-shields.

  Skin and body protection
Lightweight protective clothing.

  Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.

  Environmental exposure controls
Prevent product from entering drains. Do not allow material to contaminate ground water system.
9. Physical and chemical properties

**General Information**

- **Form**: liquid
- **Appearance**: No information available
- **Odor**: No information available
- **Boiling Point/Range**: °C, no data available
- **Melting point/range**: °C, no data available
- **Flash point**: °C, no data available
- **Autoignition temperature**: °C, no data available
- **Oxidizing properties**: No information available.
- **Water solubility**: soluble
- **pH Range**: 10-11.5

10. Stability and reactivity

- **Stability**: Stable under normal conditions.
- **Materials to avoid**: None.
- **Hazardous decomposition products**: None.
- **Polymerization**: None under normal processing.

11. Toxicological information

**Acute toxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkali hydroxide</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

**Principle Routes of Exposure/ Potential Health effects**

- **Eyes**: Irritating to eyes.
- **Skin**: Irritating to skin.
- **Inhalation**: May be harmful by inhalation.
- **Ingestion**: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

- **Carcinogenic effects**: none
- **Mutagenic effects**: none
- **Reproductive toxicity**: none
- **Sensitization**: none

- **Target Organ Effects**: None under normal use conditions

12. Ecological information

- **Ecotoxicity effects**: No information available.
- **Mobility**: No information available.
- **Biodegradation**: No information available.
- **Bioaccumulation**: No information available.
13. Disposal considerations

Dispose of in accordance with local regulations.

14. Transport information

IATA

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkali hydroxide proprietary (0.1-1.0)</td>
<td>-</td>
</tr>
</tbody>
</table>

15. Regulatory information

U.S. 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.

U.S. State Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts - RTK</th>
<th>New Jersey - RTK</th>
<th>Pennsylvania - RTK</th>
<th>Illinois - RTK</th>
<th>Rhode Island - RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkali hydroxide</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

California Proposition 65
This product does not contain chemicals listed under Proposition 65

WHMIS Hazard Class
D2B Toxic materials

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. Other information

Reason for Revision
(M)SDS sections updated.
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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 MSDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.