Form: Liquid

Section 1: Chemical Product and Company Information

Product Identifier: THERMOSTABLE AMYLASE HTL
Other Identifier: None
Recommended Use: Food Grade
Supplier Information: ANKOM Technology Corp.
2052 O’Neil Road
Macedon, NY 14502
(p) 315 986-8090
Emergency Phone: (315) 986-3857 8am – 4pm EST

Section 2: Hazards Identification

Hazard Class:
- Skin Irritant Category 2
- Eye Irritant Category 2B
- Respiratory Sensitizer Category 1
- Specific Target Organ Toxicant – Single Exposure (Respiratory Irritant) Category 3

Signal Word: Danger

Hazard Statement:
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause skin and eye irritation.

Pictograms:

Precautionary Statement:
Avoid breathing dust/mist/vapor/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Avoid contact with skin, eyes, and clothing. Wear protective gloves and safety glasses with side-shields. Ensure regular cleaning of equipment, work area, and clothing. Do not ingest.

Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS Number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amylase</td>
<td>9000-90-2</td>
<td>&lt; 3%</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>17 – 25%</td>
</tr>
<tr>
<td>Sorbitol</td>
<td>50-70-4</td>
<td>11 – 15%</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Remainder%</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Inhalation: If inhaled remove from contaminated area to fresh air. Report the situation. Seek medical attention if allergic response is exhibited.

Eye Contact: In case of contact with eyes, flush eyes with low pressure water for at least 15 minutes. If irritation develops, seek medical attention.

Skin Contact: In case of contact with skin, wash skin with soap and cold water. Remove contaminated clothing and wash.

Ingestion: If swallowed, rinse mouth and throat thoroughly with tap water. Drink water.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media:

Non-Suitable Extinguishing Media:
None

Specific Exposure Hazards:
None

Protective Equipment:
No special requirements
## Section 6: Accidental Release Measures

**Personal precautions:** Use only with adequate ventilation/personal protection. Avoid breathing dust or spray mist. Avoid formation of dust and aerosols. (See section 8.)

**Emergency procedures:** Prevent further leakage or spillage if safe to do so.

**Containment methods & Cleanup procedures:** Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid formation of aerosol.

## Section 7: Handling and Storage

**Safe Handling:** Never handle liquid without appropriate personal protective equipment in accordance with Section 8. Avoid splashing and high pressure washing. Ensure good ventilation of the room when handling.

**Storage:** Keep container tightly closed in a cool, dry, well ventilated place.

## Section 8: Exposure Controls/ Personal Protection

**Appropriate engineering controls:** Adequate ventilation.

**Eye/face protective equipment:** Wear protective glasses or eye shield.

**Skin protection:** Impermeable gloves recommended.

**Respiratory Protection:** Use NIOSH approved respiratory protection such as full face mask.

## Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light Brown Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic enzyme odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>&gt; 5.0</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.15 – 1.25</td>
</tr>
<tr>
<td>Solubility has</td>
<td>Miscible</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

## Section 10: Stability and Reactivity

**Reactivity:** Not available

**Chemical Stability:** Stable under normal storage conditions

**Hazardous reactions:** Not available

**Conditions to avoid:** Not available

**Incompatible materials:** Not available

**Hazardous Decomposition Products:** Not available
Section 11: Toxicological Information

Routes of Exposure: Eye contact, skin contact, ingestion, inhalation
Symptoms (immediate): Can cause irritation to the eyes, skin, mucus membranes, and the upper respiratory tract
Symptoms (delayed): Chronic inhalation exposure may lead to allergic sensitization based on exposure level, duration, and susceptibility
Acute toxicity: Not available
Eye irritation: May cause minor irritation
Skin irritation: May cause minor irritation
Respiratory irritation: May cause minor irritation
Sensitization towards product: Inhalation of enzyme mist/dust may cause allergic respiratory reactions, including asthma, in susceptible individuals on repeated exposure.
Germ cell mutagenicity: Not available
Reproductive toxicity: Not expected to produce reproductive toxicity
Carcinogenicity: Not classified as a carcinogen by IARC, OSHA, or NTP

Section 12: Ecological Information

Ecotoxicity: Not available.
Persistence and degradability: Product is readily biodegradable.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Other adverse effects: Not available.

Section 13: Disposal Considerations

No special disposal method required, except that in accordance with all applicable federal, state, and local regulations.

Section 14: Transport Information

Harmonized Tariff Code: 3507.90.7000 (for Enzymes)
UN Number: Not classified
UN Proper Shipping Name: Not classified
Transportation Hazard Class: Not classified
Packing Group: Not classified
Transport Environmental Hazard: Not classified
Transport Special Precautions: Not classified
MARPOL: Not classified

Section 15: Regulatory Information

All components of this product are listed or exempt from listing on the TSCA Inventory.

Section 16: Other Information

Revision History: Effective Date: 04/09/2015 Supercedes: First Issue GHS 2015 FORMAT

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