This SDS packet was issued with item:
070909796

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070909812 078587308
1 Identification of substance:

- **Product Name**: Patterson Enzyme Tablets
- **Product Code**: 070909796
- **Application of the substance / the preparation**: Cleaning material / Detergent
- **Manufacturer/Supplier**:
Patterson Companies, Inc.
1031 Mendota Heights Road
St. Paul, MN 55120
Tel: 800.328.5536
Fax: 651.686.9331
www.pattersoncompanies.com

Emergency information:
**24-hour Emergency Response Number**: 800.424.9300

2 Hazards identification

- **Hazard description**:

  ![](x)

  **Xn Harmful**

- **Information pertaining to particular dangers for man and environment**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **R 37/38** Irritating to respiratory system and skin.
- **R 41** Risk of serious damage to eyes.
- **R 42** May cause sensitization by inhalation.

- **Classification system**
The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
- **NFPA ratings for USA (scale 0-4)**

  ![Health: 2, Fire: 0, Reactivity: 0]

- **HMIS-Ratings (Scale 0-4)**

  ![Health: *2, Fire: 0, Reactivity: 0]

3 Composition/Data on components:

- **Chemical characterization**
  - **Description**:
    - **Dangerous components**:

<table>
<thead>
<tr>
<th>Subtilisin</th>
<th>Xn, Xi; R 37/38-41-42</th>
<th>10-25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>497-19-8 sodium carbonate</td>
<td>Xi; R 36</td>
<td>10-25%</td>
</tr>
</tbody>
</table>
Trade name: Patterson Enzyme Tablets

Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures
- After skin contact Immediately wash with water and soap and rinse thoroughly.
- After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing Induce vomiting and seek advice of physician.

5 Fire fighting measures
- Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards caused by the material, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire.
- Protective equipment: No special measures required.
- Additional information -

6 Accidental release measures
- Person-related safety precautions: Not required.
- Measures for environmental protection: No special measures required.
- Measures for cleaning/collection: Dispose contaminated material as waste according to item 13.
- Additional information: No dangerous substances are released. See Section 8 for information on personal protection equipment.

7 Handling and storage
- Handling
  - Information for safe handling: Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.
  - Information about protection against explosions and fires: No special measures required.
- Storage
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.

8 Exposure controls and personal protection
- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Subtilisin</th>
<th>TLV (mg/m³) C 0.00006 (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25322-68-3 Polyethyleneglycol 400</td>
<td>TLV (mg) (average molecular weight 200-600)</td>
</tr>
</tbody>
</table>
**Trade name:** Patterson Enzyme Tablets

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment**
  - **General protective and hygienic measures**
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the skin.
    - Avoid contact with the eyes and skin.
  - **Breathing equipment:**
    - Filter P1.
    - Suitable respiratory protective device recommended.

- **Protection of hands:**
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - **Material of gloves**
    - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
  - **Penetration time of glove material**
    - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
    - For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
      - Butyl rubber, BR
      - Fluorocarbon rubber (Viton)
      - Nitrile rubber, NBR
      - Natural rubber, NR
      - Chloroprene rubber, CR
  - For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
    - PVC or PE gloves
  - **Eye protection:** Protective goggles are recommended.
  - **Body protection:** Light weight protective clothing

- **9 Physical and chemical properties:**

  - **General Information**
    - **Form:** Solid.
    - **Color:** Whitish
    - **Odor:** Nearly odorless

  - **Change in condition**
    - **Melting point/Melting range:** undetermined
    - **Boiling point/Boiling range:** undetermined

  - **Flash point:** Not applicable
  - **Auto igniting:** Product is not selfigniting.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Density:** Not determined
Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 08/24/2010  Reviewed on 08/23/2010

Trade name: Patterson Enzyme Tablets

- Solubility in / Miscibility with
  - Water: Soluble

10 Stability and reactivity
- Dangerous reactions: No dangerous reactions known
- Dangerous products of decomposition: none

11 Toxicological information
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    Subtilisin
    Oral LD50 2000 mg/kg (rat)
    - Primary irritant effect:
      - on the skin: Irritant to skin and mucous membranes.
      - on the eye: Strong irritant with the danger of severe eye injury.
      - Sensitization: Sensitization possible through inhalation.
    - Additional toxicological information:
      Harmful
      Irritant
      The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

12 Ecological information:
- General notes:
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations
- Product:
  - Recommendation
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - Uncleaned packagings:
    - Recommendation: Packaging can be reused or recycled after cleaning.
    - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information
- DOT regulations:
  - Hazard class: -
- Land transport ADR/RID (cross-border)
  - ADR/RID class: -
- Maritime transport IMDG:
  - IMDG Class: -
**Trade name:** Patterson Enzyme Tablets

- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
  - **ICAO/IATA Class:** -
- **Transport/Additional information:** -

**15 Regulations**

- **SARA Section 355 (extremely hazardous substances)**
  None of the ingredients is listed.
- **SARA Section 313 (specific toxic chemical listings)**
  None of the ingredients is listed.
- **Prop 65 - Chemicals known to cause cancer**
  None of the ingredients is listed.
- **Cancerogenity categories**
  - **EPA (Environmental Protection Agency)**
    None of the ingredients is listed.
  - **IARC (International Agency for Research on Cancer)**
    None of the ingredients is listed.
  - **NTP (National Toxicology Program)**
    None of the ingredients is listed.
  - **TLV (Threshold Limit Value established by ACGIH)**
    None of the ingredients is listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    None of the ingredients is listed.
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    None of the ingredients is listed.

**Markings according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

- **Code letter and hazard designation of product:**
  Xn Harmful
- **Hazard-determining components of labelling:**
  Subtilisin
- **Risk phrases:**
  37/38 Irritating to respiratory system and skin.
  41 Risk of serious damage to eyes.
  42 May cause sensitization by inhalation.
- **Safety phrases:**
  22 Do not breathe dust.
  26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
  45 In case of accident or if you feel unwell, seek medical advice immediately.
16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
  - 36 Irritating to eyes.
  - 37/38 Irritating to respiratory system and skin.
  - 41 Risk of serious damage to eyes.
  - 42 May cause sensitization by inhalation.
SECTION 1: Identification

Product identifier

Product name: Patterson Brand Multi-Purpose Enzyme Tablets
Product code: 078587308, 070909796, 070909812

Recommended use of the product and restriction on use

Relevant identified uses: General purpose ultrasonic cleaner.
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
Patterson Companies, Inc.
1031 Mendota Heights Road
St. Paul, MN 55120
1-800-328-5536 Fax:1-651-686-9331

Supplier

Emergency telephone number:
United States
CHEMTREC
Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)
Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard(s) identification

GHS classification:
Skin corrosion, category 1C
Serious eye damage, category 1

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage

Precautionary statements:
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P264 Wash skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P321 Specific treatment (see supplemental first aid instructions on this label).
Patterson Brand Multi-Purpose Enzyme Tablets

P363 Wash contaminated clothing before reuse
P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician
P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P405 Store locked up
P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identification</th>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>1-5</td>
</tr>
<tr>
<td>CAS number: 497-19-8</td>
<td>Soda Ash Grade 100</td>
<td>1-5</td>
</tr>
<tr>
<td>CAS number: 68130-47-2</td>
<td>Ethoxylated Alcohols Phosphate Ester (C8-10)</td>
<td>1-5</td>
</tr>
</tbody>
</table>

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:
Not determined or not applicable.

After inhalation:
Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell
Take precautions to ensure your own safety
Remove source of exposure or move person to fresh air and keep comfortable for breathing
Immediately call a POISON CONTROL CENTER or seek medical attention
If breathing has stopped, trained personnel should begin rescue breathing
Avoid mouth-to-mouth contact by using a barrier device
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

After skin contact:
Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention
Avoid direct contact and wear chemical protective clothing, if necessary
Immediately take off all contaminated clothing
Gently blot or brush away excess product
Rinse skin with lukewarm, gently flowing water until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention
Wash contaminated clothing before re-use or discard

After eye contact:
**Safety Data Sheet**


**Initial preparation date:** 11.22.2017

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**Patterson Brand Multi-Purpose Enzyme Tablets**

| Rinse/flush exposed eye(s) gently using water for 15-20 minutes |
| Avoid direct contact and wear chemical protective gloves, if necessary |
| Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open |
| Remove contact lenses, if present and easy to do so |
| Continue rinsing until medical aid is available |
| Immediately call a POISON CONTROL CENTER or seek medical attention |

**After swallowing:**

| Rinse mouth thoroughly |
| Seek medical attention if irritation, discomfort, or vomiting persists |
| Immediately call a POISON CONTROL CENTER or seek medical attention |
| Do not induce vomiting and rinse mouth |
| If vomiting occurs naturally, lie on your side, in the recovery position |
| If breathing has stopped, trained personnel should begin rescue breathing |
| Avoid mouth-to-mouth contact by using a barrier device |
| If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) |

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

**Acute symptoms and effects:**

Not determined or not applicable.

**Delayed symptoms and effects:**

Not determined or not applicable.

**Immediate medical attention and special treatment**

**Specific treatment:**

Not determined or not applicable.

**Notes for the doctor:**

Not determined or not applicable.

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**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing media:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

**Unsuitable extinguishing media:**

Not determined or not applicable.

**Specific hazards during fire-fighting:**

Thermal decomposition can lead to release of irritating gases and vapors

**Special protective equipment for firefighters:**

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

**Special precautions:**

Not determined or not applicable.

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**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

**Environmental precautions:**

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Patterson Brand Multi-Purpose Enzyme Tablets

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:
Wear protective eye wear, gloves and clothing
Absorb with non-combustible liquid-binding material (sand, diatomaceus earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:
Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:
Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:
Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

<table>
<thead>
<tr>
<th>Country (Legal Basis)</th>
<th>Substance</th>
<th>Identifier</th>
<th>Permissible concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>67-63-0</td>
<td>ACGIH TLV STEL 400 ppm</td>
</tr>
<tr>
<td>ACGIH</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>67-63-0</td>
<td>ACGIH TLV TWA 200 ppm</td>
</tr>
<tr>
<td>NIOSH</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>67-63-0</td>
<td>NIOSH IDLH 2,000 ppm</td>
</tr>
<tr>
<td>NIOSH</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>67-63-0</td>
<td>NIOSH STEL 500 ppm, 1,225 mg/m³</td>
</tr>
<tr>
<td>NIOSH</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>67-63-0</td>
<td>NIOSH TWA 400 ppm, 980 mg/m³</td>
</tr>
<tr>
<td>United States (OSHA)</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>67-63-0</td>
<td>OSHA PEL TWA 400 ppm, 980 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identifier</th>
<th>Determinant</th>
<th>Sampling time</th>
<th>Permissible limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>End of shift at end of workweek.</td>
<td>40 mg/L</td>
</tr>
</tbody>
</table>

Information on monitoring procedures:
Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and
mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

**Eye and face protection:**
Safety goggles or glasses, or appropriate eye protection.

**Skin and body protection:**
Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:**
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**General hygienic measures:**
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>pH</td>
<td>11.5 - 12.2</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Initial boiling point/range</td>
<td>213°F (101°C)</td>
</tr>
<tr>
<td>Flash point (closed cup)</td>
<td>126°F (54°C)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Upper flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Lower flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Auto/Self-ignition temperature</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not determined or not available.</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity
Patterson Brand Multi-Purpose Enzyme Tablets

Reactivity:
Does not react under normal conditions of use and storage.

Chemical stability:
Stable under normal conditions of use and storage.

Possibility of hazardous reactions:
None under normal conditions of use and storage.

Conditions to avoid:
None known.

Incompatible materials:
None known.

Hazardous decomposition products:
None known.

SECTION 11: Toxicological information

Acute toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Skin corrosion/irritation
Assessment: Causes severe skin burns and eye damage
Product data: No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethoxylated Alcohols</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>Phosphate Ester (C8-10)</td>
<td></td>
</tr>
</tbody>
</table>

Serious eye damage/irritation
Assessment: Causes serious eye damage
Product data: No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Soda Ash Grade 100</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Ethoxylated Alcohols</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>Phosphate Ester (C8-10)</td>
<td></td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Carcinogenicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.
International Agency for Research on Cancer (IARC):

<table>
<thead>
<tr>
<th>Name</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Group 3 - Not classifiable as to its carcinogenicity to humans</td>
</tr>
</tbody>
</table>

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:
No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:
No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:
No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:
No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:
No data available.

Substance data: No data available.

Information on likely routes of exposure:
No data available.

Symptoms related to the physical, chemical and toxicological characteristics:
No data available.

Other information:
No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.
Patterson Brand Multi-Purpose Enzyme Tablets

**Substance data:** No data available.

**Persistence and degradability**
- **Product data:** No data available.
- **Substance data:** No data available.

**Bioaccumulative potential**
- **Product data:** No data available.
- **Substance data:** No data available.

**Mobility in soil**
- **Product data:** No data available.
- **Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

**Disposal methods:**
It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

### SECTION 14: Transport information

**United States Transportation of dangerous goods (49 CFR DOT)**

<table>
<thead>
<tr>
<th></th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td></td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Not regulated</td>
</tr>
<tr>
<td>UN transport hazard class(es)</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

**International Maritime Dangerous Goods (IMDG)**

<table>
<thead>
<tr>
<th></th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td></td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Not regulated</td>
</tr>
<tr>
<td>UN transport hazard class(es)</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

**International Air Transport Association Dangerous Goods Regulations (IATA-DGR)**

<table>
<thead>
<tr>
<th></th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td></td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Not regulated</td>
</tr>
<tr>
<td>UN transport hazard class(es)</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

### SECTION 15: Regulatory information
United States regulations

Inventory listing (TSCA):

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Listed</td>
</tr>
<tr>
<td>497-19-8</td>
<td>Soda Ash Grade 100</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Listed</td>
</tr>
</tbody>
</table>

CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Listed</td>
</tr>
</tbody>
</table>

New Jersey Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Listed</td>
</tr>
</tbody>
</table>

New York Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Pennsylvania Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Listed</td>
</tr>
</tbody>
</table>

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-1-2

HMIS: 3-1-2

Initial preparation date: 11.22.2017

End of Safety Data Sheet
**SECTION 1: Identification**

**Product identifier**
- **Product name:** Patterson Brand Multi-Purpose Enzyme Tablets
- **Product code:** 078587308, 070909796, 070909812

**Recommended use of the product and restriction on use**
- **Relevant identified uses:** General purpose ultrasonic cleaner.
- **Uses advised against:** Not determined or not applicable.
- **Reasons why uses advised against:** Not determined or not applicable.

**Manufacturer or supplier details**
- **Manufacturer:**
- **Supplier:** Patterson Dentaire Canada Inc.
- **Address:** 1205 boul Henri-Bourassa West
- **City:** Montreal (Québec) H3M 3E6
- **Phone:** +1 514-745-4040

**Emergency telephone number:**
- **Canada CHEMTREC**
  - Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)
  - Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

**SECTION 2: Hazard identification**

**GHS classification:**
- Skin corrosion, category 1C
- Serious eye damage, category 1

**Label elements**
- **Hazard pictograms:**
  - [Image of pictogram]

- **Signal word:** Danger

**Hazard statements:**
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage

**Precautionary statements:**
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash skin thoroughly after handling
Patterson Brand Multi-Purpose Enzyme Tablets

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 11.22.2017

P280 Wear protective gloves/protective clothing/eye protection/face protection
P321 Specific treatment (see supplemental first aid instructions on this label).
P363 Wash contaminated clothing before reuse
P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician
P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P405 Store locked up
P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identification</th>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>1-5</td>
</tr>
<tr>
<td>CAS number: 68130-47-2</td>
<td>Ethoxylated Alcohols Phosphate Ester (C8-10)</td>
<td>1-5</td>
</tr>
<tr>
<td>CAS number: 497-19-8</td>
<td>Soda Ash Grade 100</td>
<td>1-5</td>
</tr>
</tbody>
</table>

Additional Information: None

SECTION 4: First-aid measures

Description of first-aid measures

General notes:
Not determined or not available.

After inhalation:
Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell
Take precautions to ensure your own safety
Remove source of exposure or move person to fresh air and keep comfortable for breathing
Immediately call a POISON CONTROL CENTER or seek medical attention
If breathing has stopped, trained personnel should begin rescue breathing
Avoid mouth-to-mouth contact by using a barrier device
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

After skin contact:
Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention
Avoid direct contact and wear chemical protective clothing, if necessary
Immediately take off all contaminated clothing
Gently blot or brush away excess product
Rinse skin with lukewarm, gently flowing water until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention
Wash contaminated clothing before re-use or discard

**After eye contact:**
Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Avoid direct contact and wear chemical protective gloves, if necessary
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention

**After ingestion:**
Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists
Immediately call a POISON CONTROL CENTER or seek medical attention
Do not induce vomiting and rinse mouth
If vomiting occurs naturally, lie on your side, in the recovery position
If breathing has stopped, trained personnel should begin rescue breathing
Avoid mouth-to-mouth contact by using a barrier device
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

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

**Acute symptoms and effects:**
Not determined or not available.

**Delayed symptoms and effects:**
Not determined or not available.

**Immediate medical attention and special treatment**

**Specific treatment:**
Not determined or not available.

**Notes for the doctor:**
Not determined or not available.

---

**SECTION 5: Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media:**
Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

**Unsuitable extinguishing media:**
Not determined or not applicable.

**Specific hazards during fire-fighting:**
Thermal decomposition can lead to release of irritating gases and vapors

**Special protective equipment for firefighters:**
Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

**Special precautions:**
Not determined or not applicable.
SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:
- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing

Environmental precautions:
- Should not be released into the environment
- Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:
- Wear protective eye wear, gloves and clothing
- Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
- Dispose of contents / container in accordance with local regulations

Reference to other sections:
- Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:
- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:
- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

<table>
<thead>
<tr>
<th>Country (Legal Basis)</th>
<th>Substance</th>
<th>Identifier</th>
<th>Permissible concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>67-63-0</td>
<td>Alberta TWA 8-hr: 492 mg/m³ (200 ppm); STEL 15-min: 984 mg/m³ (400 ppm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>British Columbia TWA 8-hr: 200 ppm; STEL 15-min 400 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Manitoba TLV-TWA 8-hr: 200 ppm; STEL 15-min 400 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ontario TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Quebec TWA 8-hr: 983 mg/m³ (400 ppm); STEL 15-min: 1,230 mg/m³ (500 ppm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Saskatchewan TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm</td>
</tr>
</tbody>
</table>

Biological limit values:
Information on monitoring procedures:
Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment
Eye and face protection:
Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:
Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:
Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance (physical state, color)</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>pH-value</td>
<td>11.5 - 12.2</td>
</tr>
<tr>
<td>Melting/Freezing point</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>213°F (101°C)</td>
</tr>
<tr>
<td>Flash point</td>
<td>126°F (54°C)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Explosion limit upper</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Explosion limit lower</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined or not available.</td>
</tr>
</tbody>
</table>
Density: Not determined or not available.
Relative density: Not determined or not available.
Solubilities: Not determined or not available.
Partition coefficient (n-octanol/water): Not determined or not available.
Auto/Self-ignition temperature: Not determined or not available.
Decomposition temperature: Not determined or not available.
Dynamic viscosity: Not determined or not available.
Kinematic viscosity: Not determined or not available.
Explosive properties: Not determined or not available.
Oxidizing properties: Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity: Does not react under normal conditions of use and storage.

Chemical stability: Stable under normal conditions of use and storage.

Possibility of hazardous reactions: None under normal conditions of use and storage.

Conditions to avoid: None known.

Incompatible materials: None known.

Hazardous decomposition products: None known.

SECTION 11: Toxicological information

Acute toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Skin corrosion/irritation
Assessment: Causes severe skin burns and eye damage
Product data: No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethoxylated Alcohols</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>Phosphate Ester (C8-10)</td>
<td></td>
</tr>
</tbody>
</table>

Serious eye damage/irritation
Assessment: Causes serious eye damage
Product data:
Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 11.22.2017

Page 7 of 10

Patterson Brand Multi-Purpose Enzyme Tablets

No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Soda Ash Grade 100</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Ethoxylated Alcohols Phosphate Ester (C8-10)</td>
<td>Causes serious eye damage</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC):

<table>
<thead>
<tr>
<th>Name</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Group 3 - Not classifiable as to its carcinogenicity to humans</td>
</tr>
</tbody>
</table>

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.
**Safety Data Sheet**

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 11.22.2017

---

**Patterson Brand Multi-Purpose Enzyme Tablets**

**Substance data**: No data available.

**Aspiration toxicity**

**Assessment**: Based on available data, the classification criteria are not met.

**Product data**: No data available.

**Substance data**: No data available.

**Information on likely routes of exposure**: No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**: No data available.

**Other information**: No data available.

---

**SECTION 12: Ecological information**

**Acute (short-term) toxicity**

**Assessment**: Based on available data, the classification criteria are not met.

**Product data**: No data available.

**Substance data**: No data available.

**Chronic (long-term) toxicity**

**Product data**: No data available.

**Substance data**: No data available.

**Persistence and degradability**

**Product data**: No data available.

**Substance data**: No data available.

**Bioaccumulative potential**

**Product data**: No data available.

**Substance data**: No data available.

**Mobility in soil**

**Product data**: No data available.

**Substance data**: No data available.

**Other adverse effects**: No data available.

---

**SECTION 13: Disposal considerations**

**Disposal methods**: It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

---

**SECTION 14: Transport information**

**Canadian Transportation of Dangerous Goods (TDG)**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Not regulated</td>
</tr>
<tr>
<td>UN transport hazard class(es)</td>
<td>None</td>
</tr>
</tbody>
</table>

Generated by SDSPublisher (patent-pending) www.GSMSDS.com, 1-813-435-5161
Patterson Brand Multi-Purpose Enzyme Tablets

Packing group: None
Environmental hazards: None
Special precautions for user: None

International Maritime Dangerous Goods (IMDG)

UN number: Not regulated
UN proper shipping name: Not regulated
UN transport hazard class(es): None
Packing group: None
Environmental hazards: None
Special precautions for user: None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number: Not regulated
UN proper shipping name: Not regulated
UN transport hazard class(es): None
Packing group: None
Environmental hazards: None
Special precautions for user: None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL):

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Substance Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropyl Alcohol, Technical Grade</td>
<td>Listed</td>
</tr>
<tr>
<td>497-19-8</td>
<td>Soda Ash Grade 100</td>
<td>Listed</td>
</tr>
<tr>
<td>68130-47-2</td>
<td>Ethoxylated Alcohols Phosphate Ester (C8-10)</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Non-domestic substances list (NDSL): Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

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NFPA: 3-1-2
HMIS: 3-1-2