# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

073711710

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

073710373 073710381

HMIS HEALTH HMIS FLAMMABILITY HMIS REACTIVITY

HMIS PERSONAL PROTECTION

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SECTION I - IDENTIFICATION

Company Name: Hu-Friedy Mfg. Co., Inc. Address: 3232 N. Rockwell Street

Chicago, IL 60618

Telephone number: (312) 975-6100

Date Prepared: September 1, 1991

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SECTION II - HAZARDOUS INGREDIENTS

Sodium Sulfate CAS # 7757-82-6 CAS # 57-13-6 Sodium Bicarbonate CAS # 144-55-8 Sodium DDBSA CAS # 25155-30-0 Sodium Carbonate CAS # 497-19-8 Sodium Tripolyphosphate CAS # 7758-29-4 Carboxymethylcellulose CAS # 9004-32-4

\*

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (F) n/a Volatility/Vol (%) n/a Vapor pressure (mm Hg) n/a Vapor density (Air=1) -Solubility in H2O n/a

complete

Appearance/odor white, free-flowing powder

Specific gravity (H2O=1) - n/a Evaporation rate n/a

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SECTION IV - REACTIVITY DATA

Chemical stability stabel Conditions to avoid n/a Incompatible materials acids Decomposition products n/a

Hazardous polymerization will not occur

Polymerization avoid n/a

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash point n/a Flammable limits n/a Lower flame limit n/a Higher flame limit n/a Extinguish media -CO2, H2O For fire none Unusual fire hazard none

SECTION VI - STORAGE/HANDLING INSTRUCTIONS



# Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products

Regulations (HPR) WHMIS 2015

Date of issue: 12/07/2016 Revision date: 12/07/2016 Version: 1.0

# **SECTION 1: Identification**

#### 1.1. Identification

Product name : Enzymax Liquid

Product code : IMS-1224C, IMS-1226

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Concentrated Ultrasonic Detergent & Presoak

### 1.3. Details of the supplier of the safety data sheet

#### Made in the USA for:

Hu-Friedy Mfg. Co., LLC

3232 N. Rockwell Street | Chicago, IL 60618 | USA

1-800-Hu-Friedy or 1-773-975-6100

#### Distributor

Acmedent Corp.

91 Citation Dr, Unit 5, Concord L4K 2Y8

905-761-6850

Central Dental Supply 103-251 Saulteaux Crescent, Winnipeg R3J 3C7

204-885-7530

Henry Schein Canada, Inc.

345 Townline Road, SS4, Niagara-On-The-Lake L0S 1J0

905-646-1711 K-Dental Inc.

750 Cochrane Drive, Markham L3R 8E1

416-293-8365

Patterson Dentaire Canada

1205, Boul.henri-Bourassa West, Montreal H3M 3E6

418-688-6546

Sinclair Dental Company Ltd.

900 Harbourside Drive, North Vancouver V7P 3T8

604-986-1544

### 1.4. Emergency telephone number

Emergency number : 1-800-535-5053

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS** classification

Resp. Sens. 1

## 2.2. Label elements

#### **GHS** labelling

Hazard pictograms (GHS)



GHS08

Signal word (GHS) : Dange

Hazard statements (GHS) : May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (GHS) : Avoid breathing dust/fume/gas/mist/vapours/spray. Wear respiratory protection. If inhaled: If

breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national

and/or international regulation

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity

Not applicable

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# Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

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

#### **Substance**

Not applicable

#### 3.2. **Mixtures**

| Name                              | Product identifier | %    |
|-----------------------------------|--------------------|------|
| Glycerin                          | (CAS No) 56-81-5   | 8    |
| Subtilisins (proteolytic enzymes) | (CAS No) 9014-01-1 | 0.43 |

#### **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact

In case of contact, immediately flush skin with plenty of water. Call a physician if irritation

develops and persists.

First-aid measures after eye contact

In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion

If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel

# Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory tract irritation.

Symptoms/injuries after skin contact

: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the

Symptoms/injuries after eye contact

May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/injuries after ingestion

: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### **SECTION 5: Firefighting measures**

# **Extinguishing media**

Suitable extinguishing media : Treat for surrounding material.

Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

Reactivity : No dangerous reaction known under conditions of normal use.

#### Advice for firefighters

Protection during firefighting

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

#### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures 6.1.

#### 6.1.1. For non-emergency personnel

Protective equipment

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### For emergency responders 6.1.2.

No additional information available

## **Environmental precautions**

No additional information available

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# Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### 6.3. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable

container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal

Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

### SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Use only in well-ventilated areas. When using do not eat, drink or smoke.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

| Glycerin (56-81-5)                            |                          |   |
|---|--------------------------|---|
| OSHA  | OSHA PEL (TWA) (mg/m³)   | 15 mg/m³ (mist, total particulate)<br>5 mg/m³ (mist, respirable fraction) |
| Subtilisins (proteolytic enzymes) (9014-01-1) |                          |   |
| ACGIH   | ACGIH Ceiling (mg/m³)    | 0.00006 mg/m³   |
| NIOSH   | NIOSH REL (STEL) (mg/m³) | 0.00006 mg/m³   |

#### 8.2. Exposure controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection

must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands

carefully before eating or smoking. Handle according to established industrial hygiene and

safety practices.

#### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : No data available

Colour : Purple

Odour : Lemon. Spearmint.
Odour threshold : No data available

pH : 8.5 - 9

Melting point : No data available No data available Freezing point Boiling point No data available Flash point No data available Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) Not flammable. Vapour pressure No data available Relative vapour density at 20 °C : No data available

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# Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Relative density : 1.11

Solubility : No data available Partition coefficient n-octanol/water No data available Auto-ignition temperature : No data available : No data available Decomposition temperature Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive limits No data available Explosive properties No data available Oxidising properties : No data available

### Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### **Chemical stability**

Stable under normal storage conditions.

# Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### **Conditions to avoid** 10.4.

Heat.

#### 10.5. Incompatible materials

None known.

### **Hazardous decomposition products**

May include, and are not limited to: oxides of carbon.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified. Acute toxicity (dermal) : Not classified. Acute toxicity (inhalation) : Not classified.

| Enzymax Liquid      |   |
|---------------------|---|
| LD50 oral rat       | > 2000 mg/kg (Calculated Acute Toxicity Estimate) |
| LD50 dermal rabbit  | > 2000 mg/kg (Calculated Acute Toxicity Estimate) |
| LC50 inhalation rat | > 20 mg/l/4h (Calculated Acute Toxicity Estimate) |

| Glycerin (56-81-5)  |                                  |
|---------------------|----------------------------------|
| LD50 oral rat       | 12600 mg/kg                      |
| LD50 dermal rabbit  | > 10 g/kg                        |
| LC50 inhalation rat | > 570 mg/m³ (Eyposure time: 1 h) |

## Subtilisins (proteolytic enzymes) (9014-01-1)

LD50 oral rat Skin corrosion/irritation : Not classified. Serious eye damage/irritation Not classified.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Respiratory or skin sensitization

3700 mg/kg

Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Reproductive toxicity : Not classified. STOT-single exposure Not classified. STOT-repeated exposure : Not classified.

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# Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Aspiration hazard : Not classified.

Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause

respiratory tract irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the

skin.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

| Glycerin (56-81-5) |  |
|--------------------|--|
| LC50 fish 1        | 51 - 57 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

### 12.2. Persistence and degradability

| Enzymax Liquid                |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

#### 12.3. Bioaccumulative potential

| Enzymax Liquid                        |                      |  |
|---------------------------------------|----------------------|--|
| Bioaccumulative potential             | Not established.     |  |
| Glycerin (56-81-5)                    |                      |  |
| BCF fish 1                            | (no bioaccumulation) |  |
| Partition coefficient n-octanol/water | -1.76                |  |

#### 12.4. Mobility in soil

No additional information available

## 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product/Packaging disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

# **SECTION 14: Transport information**

### Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT and TDG

Not regulated

### **SECTION 15: Regulatory information**

## 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

| Subtilisins (proteolytic enzymes) (9014-01-1) |   |
|---|---|
| ů , ů   | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |

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# Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

#### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### Glycerin (56-81-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

Date of issue : 12/07/2016
Revision date : 12/07/2016
Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



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