

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

How the best perform

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CECTION 4. Identification		
SECTION 1: Identification		
1.1. Identification		
Product name	: Enzymax Liquid	
Product code	: IMS-1224, IMS-1224C, IMS-1226	
	substance or mixture and uses advised against	
Use of the substance/mixture	: Concentrated Ultrasonic Detergent & Presoak	
1.3. Details of the supplier of the sa	iety data sheet	
Made in the USA for: Hu-Friedy Mfg. Co., LLC 3232 N. Rockwell Street   Chicago, IL 60618 1-800-Hu-Friedy or 1-773-975-6100	DistributorAcmedent Corp.91 Citation Dr, Unit 5, Concord L4K 2Y8905-761-6850Central Dental Supply103-251 Saulteaux Crescent, Winnipeg R3J 3C7204-885-7530Henry Schein Canada, Inc.345 Townline Road, SS4, Niagara-On-The-Lake L0S 1J0905-646-1711K-Dental Inc.750 Cochrane Drive, Markham L3R 8E1416-293-8365Patterson Dentaire Canada1205, Boul.henri-Bourassa West, Montreal H3M 3E6418-688-6546Sinclair Dental Company Ltd.900 Harbourside Drive, North Vancouver V7P 3T8604-986-1544	
1.4. Emergency telephone number		
Emergency number	: 1-800-535-5053	
SECTION 2: Hazards identification 2.1. Classification of the substance GHS classification Resp. Sens. 1		
2.2. Label elements		
GHS labelling		
Hazard pictograms (GHS)		
Signal word (GHS)	GHS08	
Hazard statements (GHS)	: Danger : May cause allergy or asthma symptoms or breathing difficulties if inhaled	
Precautionary statements (GHS)	<ul> <li>May cause allergy of astrina symptoms of breathing difficulties in inhaled</li> <li>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</li> </ul>	
2.3. Other hazards		
No additional information available		
2.4. Unknown acute toxicity		
Not applicable		

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### 3.1. 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		
4.1. 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 unwell.	
4.2. Most important symptoms and effects	s, 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 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.	
4.3. 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		
5.1. Extinguishing media		
Suitable extinguishing media	: Treat for surrounding material.	
Unsuitable extinguishing media	: None known.	
.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.

 5.3.
 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		
6.1.	Personal precautions, protective equipment and emergency procedures	
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 onal information available	

### 6.2. Environmental precautions

No additional information available

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6.3.	Methods and material for containment and cleaning up	
For cor	tainment	: 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).
Method	s 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	
Precau	tions 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	
Storege	conditions	: Keep out of the reach of children. Keep container tightly closed.

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

8.1. Control pa	rameters	
Glycerin (56-81-5)		
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (mist, total particulate) 5 mg/m³ (mist, respirable fraction)
Subtilisins (proteo	lytic enzymes) (9014-01-1)	
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	0.00006 mg/m <sup>3</sup>

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.

<b>SECTION 9: Physical and chemic</b>	al properties
9.1. Information on basic physical ar	nd chemical properties
Physical state	: Liquid
Appearance	: No data available
Colour	: Purple
Odour	: Lemon. Spearmint.
Odour threshold	: No data available
pН	: 8.5 - 9
Melting point	: No data available
Freezing point	: No data available
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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Relative density	: 1.11
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No dangerous reaction known under conditions of normal use.		
10.2. Chemical stability		
Stable under normal storage conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reaction known under conditions of	normal use.	
10.4. Conditions to avoid		
Heat.		
10.5. Incompatible materials None known.		
10.6. Hazardous decomposition products		
May include, and are not limited to: oxides of carbo		
SECTION 11: Toxicological information	on and a second s	
11.1. Information on toxicological effects		
Acute toxicity (oral)	Not classified.	
Acute toxicity (dermal)	Not classified.	
	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 (Exposure time: 1 h)	
Subtilisins (proteolytic enzymes) (9014-01-1)		
LD50 oral rat	3700 mg/kg	
Skin corrosion/irritation	Not classified.	
Serious eye damage/irritation	Not classified.	
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
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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Aspiration hazard	: Not classified.
Symptoms/injuries after inhalation	<ul> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory tract irritation.</li> </ul>
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	<ul> <li>May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.</li> </ul>
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

SECTION 12: Ecological information	ation
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

Effect on the global warming

: No known effects from this product.

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

13.1.	Waste	treatment	t metho	ds

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

<b>SECTION 15: Regulator</b>	y information
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#### 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)	
EPA TSCA Regulatory Flag	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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#### 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

<b>SECTION 16: Other infor</b>	mation	
Date of issue	: 12/07/2016	
Revision date	: 12/07/2016	
Other information	: None.	
Prepared by	: Nexreg Compliance Inc. www.Nexreg.com	NEXREG

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