

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: 10/03/2016 Revision date: 10/03/2016 Version: 1.0

SECTION 1: Identification

Product identifier

Product name : Enzymax Liquid Concentrate Product code : IMS-1222, IMS-1222C

Relevant identified uses of the substance or mixture and uses advised against

Recommended uses and restrictions : Concentrated Ultrasonic Detergent & Presoak

Details of the supplier of the safety data sheet 1.3.

Manufactured 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

Emergency telephone number

Emergency number : 1-800-535-5053

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS classification

Skin Irrit. 2 Eye Irrit. 2A Resp. Sens. 1

Label elements

GHS labelling

Hazard pictograms (GHS)



Signal word (GHS)

Hazard statements (GHS)

Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements (GHS)

Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Dispose of contents/container in accordance with local, regional, national and/or international regulations.

10/03/2016 EN (English) Page 1



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

2.3. Other hazards

No additional information available

2.4. **Unknown acute toxicity (GHS)**

Not applicable

SECTION 3: Composition/information on ingredients

Substances

Not applicable





Safety Data Sheet

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

3.2. Mixtures

Name	Product identifier	%
Octanoic acid, potassium salt	(CAS No) 764-71-6	10
Glycerol	(CAS No) 56-81-5	8
Subtilisins (proteolytic enzymes)	(CAS No) 9014-01-1	1
Amylase, .alpha	(CAS No) 9000-90-2	0.14

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. Remove contaminated clothing and shoes. Wash clothing before reuse. 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 for at least 15 minutes. If easy to

do, 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, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking

of the skin.

Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

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.

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.

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

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

6.2. 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.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

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/vapours/spray. Do not

swallow. Handle and open container with care. When using do not eat, drink or smoke. Use

only in well ventilated areas.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

10/03/2016 EN (English) 3/6



Safety Data Sheet

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

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of childr

: Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Octanoic acid, potassium salt (764-71-6)	
ACGIH	Not applicable
OSHA	Not applicable

Glycerin (56-81-5)		
ACGIH	Not applicable	
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (mist, total particulate) 5 mg/m³ (mist, respirable fraction)

Subtilisins (proteolytic enzymes) (9014-01-1)		
ACGIH	ACGIH Ceiling (mg/m³)	0.00006 mg/m³
OSHA	Not applicable	
NIOSH	NIOSH REL (STEL) (mg/m³)	0.00006 mg/m³

Amylase, .alpha (9000-90-2)	
ACGIH	Not applicable
OSHA	Not applicable

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 : Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face

shield) protection.

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 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 Explosive limits No data available Explosive properties : No data available

10/03/2016 EN (English) 4/6



Safety Data Sheet

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

Oxidising properties : No data available Vapour pressure : No data available

Relative density : 1.1

Relative vapour density at 20 °C : No data available : No data available Solubility Partition coefficient n-octanol/water : No data available Auto-ignition temperature : No data available Decomposition temperature No data available Viscosity : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic

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. Incompatible materials.

10.5. Incompatible materials

Oxidizing agents.

10.6. 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 : Not classified.

Enzymax Liquid Concentrate	
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)

Subtilisins (proteolytic enzymes) (9014-01-1)		
LD50 oral rat	3700 mg/kg	
Amylase, .alpha (9000-90-2)		
LD50 oral rat	> 7500 mg/kg	
LC50 inhalation rat	> 4.96 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

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

Germ cell mutagenicity : Based on available data, the classification criteria are not met Carcinogenicity : Based on available data, the classification criteria are not met Reproductive toxicity : Based on available data, the classification criteria are not met Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met Aspiration hazard : Based on available data, the classification criteria are not met

10/03/2016 EN (English) 5/6



Safety Data Sheet

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

Symptoms/injuries after inhalation : May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing

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Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking

of the skin.

Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

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.

12.2. Persistence and degradability

Enzymax Liquid Concentrate

Persistence and degradability Not established.

12.3. Bioaccumulative potential

Enzymax Liquid Concentrate

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste 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 for transport

Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

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.

15.2. US State regulations

Enzymax Liquid Concentrate	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer,
	hirth defects or other reproductive harm

SECTION 16: Other information

Date of issue : 10/03/2016
Revision date : 10/03/2016
Other information : None.

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10/03/2016 EN (English) 6/6

