



Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200

Ultra Zyme

May 22, 2014

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product/Trade Name: Ultra Zyme (UZ-008)

1.2 INTENDED USE OF THE PRODUCT

A concentrated, non-bacterial, readily biodegradable enzyme solution.

1.3 NAME, ADDRESS, TELEPHONE OF MANUFACTURER

Lo-Chlor L.L.C.
5841 Powerline Road, Suite 202
Ft. Lauderdale, FL 33309
800-491-9810
Fax: 954-491-2311
www.lo-chlor.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency number: 1-800-424-9300
For chemical emergency, spill, leak, fire, exposure, or accident, call Chemtrec, day or night

SECTION 2: HAZARDS IDENTIFICATION

2.1 EMERGENCY OVERVIEW

Avoid contact with eyes. Mild skin irritation.
This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2 POTENTIAL HEALTH EFFECTS

Eyes	Contact with eyes can cause severe irritation.
Skin	May cause irritation upon prolonged contact.
Inhalation	Unknown
Ingestion	May cause irritation to the mouth and throat. May cause nausea.

2.3 PRECAUTIONARY STATEMENTS

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P264	Wash thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P281	Use personal protective equipment as required.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Non-hazardous by WHMIS/OSHA criteria

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES

First-aid measures general: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

First-aid after inhalation: If symptoms are experienced, remove source of contamination and/or move victim to fresh air. If breathing is difficult, have trained personnel administer oxygen. If respiration stops, have trained personnel administer artificial respiration. Get medical attention immediately.

First-aid after skin contact: Flush skin with large amounts of water. Remove any contaminated clothing and wash before reuse. Seek medical attention if irritation occurs.

First-aid after eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

First-aid after ingestion: Give large amounts of water. Do not induce vomiting. If spontaneous vomiting is inevitable, prevent aspiration by keeping victim's head below the knees. Get immediate medical attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS/BOTH ACUTE AND DELAYED

Direct contact with eyes may cause severe irritation.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT NEEDED

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing agents: Carbon dioxide (CO₂), dry chemical extinguishing powder or water fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

No further relevant information available.

5.3 ADVICE FOR FIREFIGHTERS

Protective equipment:

Firefighters should wear full protective clothing including self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent.)



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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General measures: Isolate area. Keep unnecessary personnel away. Ventilate closed spaces before entering. Use appropriate personal protection equipment (PPE). Handle in accordance with good industrial hygiene and safety practices.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not allow to enter sewers/surface or ground water.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Never return spills to original containers for re-use. For large and small spills use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Dispose in accordance with all local, state and federal regulation.

6.4 REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling.
See Section 8 for information on exposure control and personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling: Open and handle receptacle with care. Avoid contact with skin and eyes. Ensure good ventilation at the workplace.

Hygiene measures: Use appropriate personal protection equipment (PPE). Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions: Keep receptacle tightly sealed. Keep separated from incompatible substances. Store below 120° F (49°C), preferably below 75°F(24°C), in a cool, dry, well-ventilated area away from heat, sparks, flame, oxidizers and out of direct sunlight.

Incompatible products: Strong oxidizing agents, alkalis.

Incompatible materials: No further relevant information available.

7.3 SPECIFIC END USE(S)

No further relevant information available.



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SECTION 8: EXPOSURE CONTROLS/CHEMICAL PROPERTIES

8.1 CONTROL PARAMETERS

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 EXPOSURE CONTROLS

Appropriate engineering controls: Provide adequate ventilation or other engineering controls. Eyewash stations and safety showers are recommended in the work-station location.

Personal protective equipment:



Hand protection: Wear impervious gloves.

Eye protection: Chemical goggles or safety glasses with side shields.

Skin and body protection: Wear suitable protective clothing to minimize skin contact.

Respiratory protection: If irritation is experienced, use respiratory filter device.

General protection: When using, do not eat, drink or smoke. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Appearance	:	Translucent amber liquid
Weight	:	8.4 – 8.5 lbs. /gallon
Odor	:	Mild, slightly pungent
Odor threshold	:	No data available
pH	:	3.8 – 4.2 @ 77°F (25°C)
Evaporation Rate	:	<0.01 *N-butyl acetate = 1
Freezing point	:	< 32°F (0°C)
Boiling point	:	> 212°F (100°C)
Flash point	:	None
Vapor Pressure	:	<0.01 mm Hg @ 68° F (20°C)
Vapor Density (air=1)	:	Same as water
Flammability (solid, gas)	:	No data available
Specific gravity	:	~1.01 – 1.03 @ 77° F (25°C)
Solubility in water	:	Complete
Solid contents	:	No data available

9.2 OTHER INFORMATION

No further relevant information available.



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SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reactions known.

10.2 CHEMICAL STABILITY

Product is stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known.

10.4 CONDITIONS TO AVOID

Do not mix with other chemicals. Contact with incompatible materials.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents, alkalis.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

None known

10.7 THERMAL DECOMPOSITION/CONDITIONS TO AVOID

None known

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity: Not available.

11.2 PRIMARY IRRITANT EFFECT

On the skin: Irritating effect.

On the eye: Irritating effect.

Sensitization: No sensitizing effects known.

11.3 ADDITIONAL TOXICOLOGICAL INFORMATION

No further relevant information available.

11.4 CARCINOGENIC CATEGORIES

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

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

11.5 SIGNS AND SYMPTOMS OF EXPOSURE

No further relevant information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

This material not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2 PERSISTENCE AND DEGRADABILITY

No further relevant information available.



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Ultra Zyme

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12.3 BIOACCUMULATIVE POTENTIAL

No further relevant information available.

12.4 MOBILITY IN SOIL

No further relevant information available.

12.5 ADDITIONAL ECOLOGICAL INFORMATION

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

12.6 OTHER ADVERSE EFFECTS

No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Waste disposal recommendations: Dispose of contents/container in accordance with local, regional, and national regulations. Do not allow product to reach sewage system.

SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER

Non-hazardous

14.2 PROPER SHIPPING NAME

DOT Non-regulated material

ADR

IATA

IMDG

14.3 DOT PACKING GROUP

Not applicable

14.4 HAZARD CLASS

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 SARA

Section 355 (Extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): None of the ingredients is listed.

15.2 TSCA (Toxic Substances Control Act)

This product and/or all of its components are either included on or exempt from TSCA Inventory of Chemical Substances.



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OSHA Hazard Communication Standard 29 CFR 1910.1200

Ultra Zyme

May 22, 2014

15.3 PROPOSITION 65

Chemicals known to cause cancer: No ingredients are listed.

Chemicals known to cause reproductive toxicity for females: No ingredients are listed.

Chemicals known to cause reproductive toxicity for males: No ingredients are listed.

Chemicals known to cause developmental toxicity: No ingredients are listed.

15.4 CARCINOGENIC CATEGORIES

TLV (Threshold Limit Value established by ACGIH): No ingredients are listed.

SECTION 16: OTHER INFORMATION

16.1 CLASSIFICATION SYSTEM

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0 - 4)



Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 1

Fire = 0

Reactivity = 0

This information is based on our present knowledge and on data considered to be accurate. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Lo-Chlor L.L.C. assumes no responsibility for personal injury or property damage to the users or third parties caused by the material. User assumes all risks associated with the use of this material.