

# Safety Data Sheet

## Ultrazyme

### SECTION 1. IDENTIFICATION

Product Identifier	<b>Ultrazyme</b>
Recommended Use	Odour controller and neutralizer
Initial Supplier Identifier	Envirowise Solutions Inc. Suite 441, 5525 West Boulevard, Vancouver, BC. V6M 3W6. Telephone: 1.877.709.3888
Emergency Telephone Number	Canutec 613-996-6666

### SECTION 2. HAZARD IDENTIFICATION

Classification (Hazard Class)	Not classified under any hazard class
Label Elements	Not applicable

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	Concentration %	Common name / Synonyms	Other identifiers
Non-hazardous ingredient or those below disclosure limits		5	Naturally occurred micro-organisms	
Rhamnolipid B	147858-26-2	0.5-1.0		
Protease	9014-01-1	0.1-1		
Amylase, alpha-	9000-90-2	0.1-1		
Lipase	9001-62-1	0.1-1		
Cellulase	9012-54-8	0.1-1		

**Notes:** Dangerous ingredients and impurity: None

### SECTION 4. FIRST-AID MEASURES

Inhalation	Inhalation is an unlikely route of entry. If inhalation of vapour or mist is suspected, remove victim to fresh air. Seek medical attention if victim is unwell or concerned.
Skin Contact	Avoid direct contact. Wear chemical protective clothing if necessary. Rinse with lukewarm, gently flowing water for 5 minutes. If skin irritation occurs, seek medical advice or attention. Clean clothing, shoes and leather goods.
Eye Contact	Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, whole holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, seek medical attention.
Ingestion	This is an extremely unlikely route of entry. Never give anything by mouth if person is rapidly losing consciousness or is unconscious or convulsing. Rinse mouth with water. Do not induce vomiting. Seek medical advice or attention if you feel unwell or are concerned.

### SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media	Not combustible. Use extinguishing agent suitable for surrounding fire.
Unsuitable Extinguishing Media	None known.
Specific Hazards Arising from the Product	Does not burn. Not known to generate any hazardous

	decomposition products in a fire.
Special Protective Equipment and Precautions for Fire-Fighters	Persons involved in fighting or exposed to the fire must wear breathing equipment and fire proof garments providing full-body protection.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Use the personal protective equipment recommended in Section 8 of this safety data sheet.
Environmental Precautions	No special precautions are necessary.
Methods and Materials for Containment and Cleaning Up	Contain spill or leak. Neutralize the final traces and flush area with water. Solutions should be contained by diking with inert material, such as sand or earth. Large spills or leaks: contact emergency services and manufacturer/supplier for advice.

## SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	It is good practice to avoid breathing the product; avoid skin and eye contact and wash hands after handling.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area. Keep closed. Comply with all applicable health and safety regulations, fire and building codes.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

Threshold Limit Values – ceiling limit: 0.00006 mg/cu. / Subtilisins, as crystalline active enzyme	
Appropriate Engineering Controls	General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.
Individual Protection Measures	
Eye/Face Protection	Wear chemical safety goggles and face shield when contact is possible.
Skin Protection	When handling, wear non-permeable gloves to prevent skin contact.
Respiratory Protection	Wear a NIOSH approved particulate respiratory equipped with an N95, R95 or P95 filter whenever exposed to dust.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue
Odour	Spearmint Fragrance
pH	6.5 – 7.4 (5% solution).
Physical State	Liquid
Initial Boiling Point & Boiling Range	Equivalent to water
Flash Point	None to boiling
Evaporation Rate	Equivalent to water
Flammability (solid, gas)	Non-flammable
Relative Density (water=1)	1.0
Solubility	Soluble in water
Auto-ignition Temperature	Not applicable
Viscosity	Water thin

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions of use
Chemical Stability	Normally stable
Possibility of Hazardous Reactions	None expected under normal conditions of storage and use
Conditions to Avoid	Incompatible materials. Avoid contact with strong acids or alkali compounds high temperature and humidity.
Incompatible Materials	Strong acids (e.g. hydrochloric acid), alkali compounds
Hazardous Decomposition Products	None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation     Skin contact     Eye contact     Ingestion

Acute Toxicity	
LD50 (Protease)	3700 mg/kg oral, rat
LD50 (Amylase)	>7500 mg/kg oral, rat
LD50 (Amylase)	>15 gm/kg oral, mouse
LD50 (Lipase)	>10400 mg/kg oral, rat
LD50 (Lipase)	634 mg/kg Intraperitoneal, rat
Skin Corrosion/Irritation	May cause mild skin irritation.
Serious Eye Damage/Irritation	May cause eye irritation
STOT (Specific Target Organ Toxicity) - Single Exposure	Inhalation: Aerosol or mist may cause irritation of the nose, throat and upper respiratory tract. Skin Absorption: This product may be mildly irritating to the skin. Ingestion: Ingestion of large amounts will cause gastro-intestinal discomfort.
STOT (Specific Target Organ Toxicity) - Repeated Exposure	

## SECTION 12. ECOLOGICAL INFORMATION

### Not hazardous to the environment.

Ecotoxicity	
Protease	(CAS n° 9014-01-1): LD50 rainbow trout = 15000 mg/L; EC50 water flea = 23.78 mg/L
Amylase	(CAS n° 9000-90-2): EC50 water flea = 10000 mg/L
Lipase	(CAS n° 9001-62-1): EC50 water flea = 1500 mg/L
Cellulase	(CAS n° 9012-54-8): EC50 water flea = 793,28 mg/L
Persistence and Degradability	Biodegradable.
Bioaccumulative Potential	This product and its degradation products are not expected to bioaccumulate.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods	May be disposed in accordance with the local, provincial and federal authority regulations.
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## SECTION 14. TRANSPORT INFORMATION

This section is not required by WHMIS 2015. Not regulated under Canadian TDG Regulations. Not regulated under USDOT Regulations. Not regulated under IATA Regulations.	
Environmental Hazards	Not applicable
Special Precautions	Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
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## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

CANADA Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)	All ingredients are listed on the DSL or are not required to be listed.
USA Toxic Substances Control Act (TSCA) Section 8(b)	All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

## SECTION 16. OTHER INFORMATION

SDS Prepared By	Envirowise Solutions Inc.
Date of Preparation	03/16/2016
Date of Last Revision	12/18/2020
Revision Indicators	2
Key to Abbreviations	ACGIH®=American Conference of Governmental Industrial Hygienists NIOSH = National Institute for Occupational Safety and Health HSDB®= Hazardous Substances Data Bank
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
Disclaimer	<p>This Safety Data Sheet (SDS) was prepared using information provided by Envirowise Solutions and CCINFO (Chemical Data from the Canadian Centre for Occupational Health and Safety). The information contained in this SDS is offered for your consideration and guidance when exposed to this product. The data contained herein is accurate o the best of the knowledge of Envirowise Solutions Inc. Envirowise Solutions Inc. expressly disclaims all expressed or implied warranties and assumes no responsibilities for the outcome arising from the use of its products in any manner except to the extent specifically agreed to in writing.</p> <p>For industrial use only.</p> <p>This Safety Data Sheet may not be altered in any way without the knowledge and written permission of Envirowise Solutions Inc.</p>