



ULTRAZYME MSDS

Supplier: Cypher International Ltd.
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Section I: Product Identification

Product Name: UltraZyme
HS code: 3507 90 7000

Section II: Physical Data

Chemical Name	CAS Number	Proportion
Alcohol ethoxylate	68439-46-3	30 - 60
Mono-,di- and poly-saccharides	-	10 - 30
Ethanol		1 - 10
Urea	57-13-6	1 - 10
Citrates	50-21-5	1 - 10
Potassium as K ₂ O	-	1 - 10
Calcium as CaO	-	<1

Section III: Health Hazard Information

Considered non-harmful by all exposure routes. Contact with skin may result in mild irritation. A slight eye irritant.

HMIS HAZARD RATING INFORMATION	<u>FLAMMABILITY</u>	<u>HEALTH</u>	<u>REACTIVITY</u>
0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe	0	1	0

Section IV: First Aid Procedures

EYE CONTACT: Flush eyes with low pressure water for up to 15 minutes. If irritation persists, seek medical advice.

SKIN CONTACT: If chronic skin exposure, wash with soap and water.

INGESTION: If swallowed in large quantities, induce vomiting.

NOTE TO PHYSICIAN: Treat symptomatically, no known antidote.

Section V: Fire & Explosion Data

Flash point: None

Auto-ignition temperature: None

Flammable (explosive) limits: Non-flammable

Section VI: Spill & Disposal Procedures

In case of accidental spill or discharge, take up and containerize for disposal according to state and local regulations. This product displays ultimate biodegradability under both aerobic and anaerobic conditions and if spilled should not cause any adverse short or long-term environmental impacts.

Section VII: Storage & Application

Storage Temperature (Degrees C/F)

Minimum: 0° C (32° F)

Maximum: 50° C (120° F)

Application Temperature:

Minimum: 10° C (50° F)

Maximum: 57° C (135° F)

Optimum Working Temperature Range:

18 - 45° C (64 - 113° F)

Section VIII: Special Protection Equipment

Ventilation Requirements: as normal

Protective equipment:

Eyes: Safety goggles

Respirator: Not applicable

Clothing: Regular on-site clothing

Section IX: Physical Data

Appearance:	Pale green slightly viscous liquid with herbal scent
Specific Gravity @ 20°C:	1.0 to 1.1
pH (neat):	3 to 6
Freezing point:	<0°C
Boiling point:	>100°C
Vapor pressure:	As for water
Miscibility with water:	Miscible in all proportions
Flash point:	Not flammable; not combustible
Ultimate Biodegradability:	DOC reduction >90% after 28 days
Composition:	A blend of fermented carbohydrates, inorganic salts and surfactants

Section X: Stability and Reactivity Data

Stability: Stable for a minimum of two years when stored in proper conditions (see section VII above)

Conditions to Avoid: Storage above 50° C (120° F) or below 0° C (32° F). Avoid contact with strong oxidizing and reducing agents.

Section XI: Toxicological Properties

Non- Toxic, pathogen free.

Section XII: Ecological Properties

The product exhibits ultimate biodegradability under anaerobic conditions as defined by US EPA methods (40 CFR part 796.3180).

Section XIII: Disposal Consideration

See Section VI.

Section XIV: Transport Information

This product is non-toxic, transport in conditions described in section VII above.

Section XV: Regulatory Information

SARA/TITLE III – CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 304.4): This product **does not** contain an ingredient(s) listed as a hazardous ingredient for Emergency Release Notification under section 304.

SARA/TITLE III – List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 300 & 305): This product **does not** contain an ingredient(s) listed as an extremely hazardous substance (EHS) for Emergency Planning under sections 301-303 and for Emergency Release Notification under section 304.

SARA/TITLE III – List of Toxic Chemical subject to Release Reporting (Community Right to Know

(40 CFR 372): This product **does not** contain an ingredient(s) listed as a toxic chemical for Annual Release Reporting Requirements under section 313.

Section XVI: Other Information

Please contact the supplier for application instructions because the application rate/procedure can fluctuate depending on the specific application the product is used for.

Last updated February 5, 2007

All reasonable care has been taken to ensure information and advice contained in this data sheet is accurate at time of printing. However, Cypher International Ltd. accepts no liability for any loss or damages suffered as a consequence of reliance on the information contained herein.
