

# SAFETY DATA SHEET

Issue Date 08-Oct-2014

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Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name	MICRO-ZYME L-300	
<u>Other means of identification</u> Product Code Synonyms	173 None	
<u>Recommended use of the chemical</u> Recommended Use Uses advised against	<u>and restrictions on use</u> Liquid enzyme concentrate. No information available	
Manufacturer Address Anderson Chemical Company, 325 Sc	outh Davis Avenue, Litchfield, MN 55355 (320-693-2	477)
Emergency telephone number Chemtrec 1-800-424-9300		
	2. HAZARDS IDENTIFICATION	
Classification		
Respiratory sensitization		Category 1
Label elements		
-	Emergency Overview	
Danger Hazard statements May cause allergy or asthma sympton	ns or breathing difficulties if inhaled	
Appearance aqueous solution	Physical state liquid	<b>Odor</b> Solvent

#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray In case of inadequate ventilation wear respiratory protection

### **Precautionary Statements - Response**

IF INHALED: 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

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other Information Unknown Acute Toxicity

0.05% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nam	е	CAS No.	Weight-%	Trade Secret
Subtilisins (proteolytic enzymes)		9014-01-1	0.75	
*The exact percentage (concentration) of composition has been withheld as a trade secret.				
4. FIRST AID MEASURES				
First aid measures				
Eye contact	Flush immediately with plenty of water for 15 minutes. Lift upper and lower eyelids for complete rinsing. If irritation persists after rinsing, get medical attention.			
Skin Contact		Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.		
Inhalation	Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.			
Ingestion	Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.			
Most important symptoms and effects, both acute and delayed				
Symptoms	May cause eye irritation. Could cause mild skin irritation after prolonged contact. Inhalation could cause irritation to respiratory tract. Ingestion may result in gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause an allergic respiratory reaction in sensitive individuals.			
Indication of any immediate medical attention and special treatment needed				
Note to physicians	Treat symp	otomatically.		
5. FIRE-FIGHTING MEASURES				

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

# Specific hazards arising from the chemical

No information available.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to cool fire exposed containers.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection equipment. Avoid creating dust.

Environmental precautions	See Section 12 for additional ecological information.
Methods for containment	Completely contain spilled material with dikes or sand bags, etc.
Methods for cleaning up	Shut off source of leak only if safe to do so. Dike and contain spilled material. Recover free product. To clean up residue, flush area with water or use an absorbent.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Advice on safe handling	Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/equipment. Use with adequate ventilation.
Conditions for safe storage, includ	ling any incompatibilities
Storage Conditions	Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.
Incompatible materials	Strong oxidizing agents. Strong acids.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Guidelines

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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Subtilisins (proteolytic enzymes) 9014-01-1	Ceiling: 0.00006 mg/m <sup>3</sup> as crystalline active enzyme	(vacated) STEL: 0.00006 mg/m <sup>3</sup> 60 min	STEL: 0.00006 mg/m <sup>3</sup> 60 min Subtilisins
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# Appropriate engineering controls

Showers Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	If contact is anticipated, wear protective clothing appropriate to use conditions.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	liquid		
Appearance	aqueous solution	Odor	Solvent
Color	clear Pale amber	Odor threshold	No information available

Property_	Values	Remarks • Method		
pH	7.0			
Melting point/freezing point	No information available			
Boiling point / boiling range	No information available			
Flash point	No information available			
Evaporation rate	No information available			
Flammability (solid, gas)	No information available			
Flammability Limit in Air				
Upper flammability limit:	No information available			
Lower flammability limit:	No information available			
Vapor pressure	No information available			
Vapor density	No information available			
Specific Gravity	1.029			
Water solubility	Soluble in water			
Solubility in other solvents	No information available			
Partition coefficient	No information available			
Autoignition temperature	No information available			
Decomposition temperature	No information available			
Kinematic viscosity	No information available			
Dynamic viscosity	No information available			
Explosive properties	No information available			
Oxidizing properties	No information available			
Other Information				
Softening point	No information available			
Molecular weight	No information available			
VOC Content (%)	No information available			
Density	No information available			
Bulk density	No information available			
	10. STABILITY AND	10. STABILITY AND REACTIVITY		

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### **Conditions to avoid**

Extremes of temperature and direct sunlight.

# **Incompatible materials**

Strong oxidizing agents. Strong acids.

<u>Hazardous Decomposition Products</u> Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	No data available
Inhalation	May cause irritation of respiratory tract.
Eye contact	Irritating to eyes.

Skin Contact	Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause stomach irritation with stomach discomfort.

#### Information on toxicological effects

#### Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0.05% of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document .

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

6.6% of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Persistence and degradability No information available.

# **Bioaccumulation**

No information available.

#### Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

# 14. TRANSPORT INFORMATION

DOT

Not regulated

# 15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

	SARA	311/312	Hazard	Categories
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Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

# **16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection X
Prepared By	Imt			
Issue Date Revision Date	08-Oct-20 08-Oct-20			
Revision Note No information available				

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet