

# **SAFETY DATA SHEET**

Issue Date 08-Oct-2014 Revision Date 18-Aug-2020 Version 2

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

Product Name MICRO-ZYME L-300

Other means of identification

Product Code 173 Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use
Liquid enzyme concentrate.
Uses advised against
No information available

**Manufacturer Address** 

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

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 symptoms or breathing difficulties if inhaled



Appearance aqueous solution Physical state liquid Odor 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 Name	CAS No.	Weight-%	Trade Secret
Subtilisins (proteolytic enzymes)	9014-01-1	0.75	

<sup>\*</sup>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

## 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, including 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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Subtilisins (proteolytic enzymes)	Ceiling: 0.00006 mg/m³ as	(vacated) STEL: 0.00006 mg/m <sup>3</sup>	STEL: 0.00006 mg/m <sup>3</sup> 60 min
9014-01-1	crystalline active enzyme	60 min	Subtilisins

### **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

Appearanceaqueous solutionOdorSolvent

Color Clear Pale amber Odor threshold No information available

Remarks • Method

<u>Property</u> <u>Values</u>

**pH** 7.0

Melting point/freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
No information available
No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
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
Molecular weight
VOC Content (%)
Density
No information available

# 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.

#### **Hazardous Decomposition Products**

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

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.Reproductive toxicityNo information available.STOT - single exposureNo information available.STOT - repeated exposureNo information available.Aspiration hazardNo 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

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

#### 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

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**

WARNING: This product can expose you to Diethanolamine, which is known to the State of California to

cause cancer. For more information go to www.P65Warnings.ca.gov.

# California Proposition 65 - CRT: Listed date/Carcinogenic substance

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

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

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

# **16. OTHER INFORMATION**

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 1 Flammability 0 Physical hazards 0 Personal protection X

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**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**