

# SAFETY DATA SHEET

Issue Date 29-Aug-2014 Revision Date 20-Jan-2015 Version 3

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

Product Name LF Zyme

Other means of identification

Product Code 139 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Liquid Laundry Enzyme Detergent.

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

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2B	
Respiratory sensitization	Category 1	

### Label elements

#### **Emergency Overview**

### Danger

#### Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled Causes eye irritation



Appearance No information available

Physical state liquid

Odor None

### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Use only in well-ventilated areas Wash hands thoroughly after handling

### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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

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# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity 43.9% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

	Chemical Name	CAS No.	Weight-%	Trade Secret
ſ	TSRN6604	Proprietary	0 - 10%	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

First aid measures

**General advice** If symptoms persist, call a physician.

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 from immediate source of exposure to fresh air. If breathing is difficult,

administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate 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 Irritant. Drowsiness. Dizziness.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog). Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Sealed containers may rupture when heated.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

**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. Cool containers with flooding quantities of water until well after fire is out.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection

equipment. Remove all sources of ignition.

**Environmental precautions** See Section 12 for additional ecological information.

**Methods for containment** Remove free liquid. Contain spill and keep from entering waterways or sewers.

Methods for cleaning up Recover as much material as possible into containers for disposal or reuse. Remaining

material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

### 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 Inorganic acids, inorganic bases, bleaching agents and oxidizers (chlorine, oxygen,

permanganates, perchlorates, percarbonates, peroxides, chromates, hypochlorites, nitric

acid, and sulfuric acid.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TSRN6604	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
	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** Eye protection is recommended.

**Skin and body protection** Not required for normal use. If contact is likely, wear protective gloves. If contact is likely,

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 No information available Odor None

Color Clear, green liquid Odor threshold No information available

Property Values Remarks • Method

pH 8.5

Melting point/freezing point No information available

Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)

No information available >212 °F
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
No information available

Specific Gravity 1.036

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 No information available **Explosive properties Oxidizing properties** No information available

### **Other Information**

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo 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**

Avoid extreme heat.

#### Incompatible materials

Inorganic acids, inorganic bases, bleaching agents and oxidizers (chlorine, oxygen, permanganates, perchlorates, percarbonates, peroxides, chromates, hypochlorites, nitric acid, and sulfuric acid.

#### **Hazardous Decomposition Products**

Carbon oxides. Aldehydes. Organic acids. Ketones.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

Eye contact Irritating to eyes.

**Skin Contact** Avoid contact with skin. May cause 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

Serious eye damage/eye irritation Irritating to eyes.

Sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 43.9% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 19205 mg/kg

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

44% 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

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Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Rinse empty container and offer for recycling.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

# 15. REGULATORY INFORMATION

### **International Inventories**

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

### 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 Yes
Chronic Health Hazard No
Fire hazard Yes
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)

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### **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

NFPA 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 kcs

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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**