

# SAFETY DATA SHEET

Issue Date 29-Aug-2014

Product Name

Revision Date 04-Sept-2020

Version 4

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

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	

LF Zyme

#### 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 **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
TSRN6604	Proprietary	0 - 10%	

\*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 productsCarbon 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, includ	ing 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
Γ	TSRN6604	Ceiling: 0.00006 mg/m <sup>3</sup> 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 Appearance Color	liquid No information available Clear, green liquid	Odor Odor threshold	None No information available
Property pH Melting point/freezing point Boiling point / boiling range Flash point	<u>Values</u> 8.5 No information available No information available >212 °F No information available °F	<u>Remarks • Method</u>	
Evaporation rate Flammability (solid, gas) Flammability Limit in Air	No information available No information available		
Upper flammability limit: Lower flammability limit: Vapor pressure	No information available No information available No information available		
Vapor density Specific Gravity Water solubility	No information available 1.036 Soluble in water		
Solubility in other solvents Partition coefficient Autoignition temperature	No information available No information available No information available		
Decomposition temperature Kinematic viscosity Dynamic viscosity	No information available No information available No information available		
Explosive properties Oxidizing properties	No information available No information available		
Other Information			
Softening point Molecular weight VOC Content (%) Density Bulk density	No information available No information available No information available No information available No information available		

# **10. STABILITY AND REACTIVITY**

### Reactivity

No data available

<u>Chemical stability</u> 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 Sensitization	Irritating to eyes. 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 Toxicity43.9% of the mixture consists of ingredient(s) of unknown toxicityThe 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

Disposal of wastesDisposal should be in accordance with applicable regional, national and local laws and<br/>regulations.Contaminated packagingRinse 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 contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Nonylphenol Ethoxylates; CAS No: 127087-87-0, 22.0% by weight

#### SARA 311/312 Hazard Categories

Serious eye damage or irritation Respiratory sensitization

#### **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)

# <u>CERCLA</u>

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 Issue Date Revision Date Revision Note Updated Section 15	kcs 29-Aug-2014 04-Sept-2020			
at the date of its publ	ication. The information	given is designed only	t to the best of our knowled as a guidance for safe han	•

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**