



# SAFETY DATA SHEET

Issuing Date 17-Jan-2014

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Revision Number 1

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

### GHS product identifier

**Product Name** Enz Out

### Other means of identification

**Product Code(s)** 7474

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Laundry Detergent

**Uses advised against** No information available

### Supplier's details

#### **Supplier Address**

Sunburst Chemicals, Inc.  
220 W. 86th St.  
Bloomington, MN 55420  
TEL: 952-884-3144

**Emergency Telephone Number** 1-866-303-6943

## 2. HAZARDS IDENTIFICATION

### Classification

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

### **PRODUCT AS SOLD**

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1

### **PRODUCT AT USE DILUTION**

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1

### GHS Label elements, including precautionary statements

#### Emergency Overview

### **PRODUCT AS SOLD**

<b>Signal Word</b>	Danger
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**Hazard Statements**

- Harmful if swallowed
- Causes severe skin burns and eye damage



**Appearance** White

**Physical State** Powder

**Odor** None

**Precautionary Statements**

**Prevention**

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray
- In case of inadequate ventilation wear respiratory protection

**General Advice**

- Immediately call a POISON CENTER or doctor/physician

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

**Inhalation**

- IF INHALED: 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

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Do NOT induce vomiting

**Storage**

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Harmful to aquatic life with long lasting effects

**PRODUCT AT USE DILUTION**

**Signal Word**

**Danger**

**Hazard Statements**

- Harmful if swallowed
- Causes severe skin burns and eye damage



**4. FIRST AID MEASURES**

**PRODUCT AS SOLD**

**Description of necessary first-aid measures**

<b>General Advice</b>	Immediate medical attention is required.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Seek immediate medical attention/advice.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

<b>PRODUCT AT USE DILUTION</b>	
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eye lids, for at least 15 minutes. Seek immediate medical attention / advice.
<b>Skin Contact</b>	Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induct vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable Extinguishing Media** None

**Specific Hazards Arising from the Chemical**

May burn if exposed to high temperature.

**Explosion Data**

<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	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.

**6. ACCIDENTAL RELEASE MEASURES**

**PRODUCT AS SOLD**

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

**Personal Precautions** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become very slippery.

**Environmental Precautions**

**Environmental Precautions** Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Collect and reuse if possible. Following product recovery, flush area with water.

**PRODUCT AT USE DILUTION**

**Personal Precautions** Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Ensure adequate ventilation. Use personal protective equipment. Solution can cause surfaces to become slippery.

**Environmental Precautions** Avoid release to the environment. Rinse or mop up use solutions. Solutions may be flushed down sanitary sewer drains.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent solutions from spillage.

**Methods for Cleaning Up** Flush area with water.

**7. HANDLING AND STORAGE**

**PRODUCT AS SOLD**

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed. Keep container closed when not in use. Keep out of the reach of children.

**Incompatible Products** None known based on information supplied.

**PRODUCT AT USE DILUTION**

**Advice on safe handling** Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe mist. Use only with adequate ventilation. Wash hands thoroughly after handling.

**Conditions for safe storage** Keep out of reach of children. Store in suitable labeled containers.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

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

**Appropriate engineering controls**

**Engineering Measures** Eyewash stations

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

**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Rubber gloves.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Hygiene Measures** Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### PRODUCT AS SOLD

**Information on basic physical and chemical properties**

<b>Physical State</b>	Powder	<b>Appearance</b>	White
<b>Odor</b>	None	<b>Odor Threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values for Product as Sold</u></b>	<b><u>Values for Product at Use Dilution</u></b>
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pH , Use Solution	N/A	10.5 - 11.5
Melting Point/Range	60 °C / 140 °F	Physical State – Liquid Odor – None Appearance - Colorless
Boiling Point/Boiling Range	None	
Flash Point	None.	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limits in Air upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	No data available	
Specific Gravity	No data available	
Water Solubility	Complete	
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/water	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Viscosity	No data available	

**Flammable Properties** Not flammable

**Explosive Properties** Not explosive  
**Oxidizing Properties** Not an oxidizer

**Other information**

**VOC Content (%)** 0%

## 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**

None known based on information supplied.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**PRODUCT AS SOLD**

Information on likely routes of exposure

**Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Eye Contact</b>	Causes serious eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<b>PRODUCT AT USE DILUTION</b>	
<b>Inhalation</b>	May cause irritation of respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Eye Contact</b>	Causes serious eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium carbonate	= 4090 mg/kg ( Rat )	-	-
Pentasodium Triphosphate	= 4640 mg/kg ( Rat )	-	-
Alcohols,C14-15, ethoxylated	= 1000 mg/kg (Rat )	> 2000 mg/kg ( Rat )	-
Sodium metasilicate	= 1280 mg/kg (Rat) = 2400mg/kg (Mouse)	-	-
Nonylphenol Ethoxylate	= 3310 mg/kg ( Rat )	= 2000 mg/kg ( Rabbit )	-
Alpha-amylase (aep)	> 2000 mg/kg ( Rat )	-	-
Subtilisins (proteolytic enzymes)	= 3700 mg/kg (Rat )	-	-

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity • - Product**

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

<b>LD50 Oral</b>	No information available.
<b>LD50 Dermal</b>	No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium carbonate		LC50 96 h: = 300-320 mg/L (Bluegill Sunfish)		EC50 48h: = 265 mg/L (Daphnia magna)
Alcohols,C14-15, ethoxylated	EC50 96h: = 0.95 mg/L	LC50 96 h: = 0.9 mg/L static (Oncorhynchus Mykiss)		EC50 48 h: =0.25 mg/L (Daphnia magna)
Sodium metasilicate		LC50 96 h: = 2320 mg/L static (Gambusia affinis)		EC50 48h: = 247 mg/L (Daphnia magna)
Nonylphenol Ethoxylate		LC50 96 h: = 1.8 mg/L static (Bluegill Sunfish)		EC50 48h: = 12.2 mg/L (Daphnia magna)
Alpha-amylase (aep)		LC50 96 h: = 326.7 mg/L		EC50 48 h: = 457 mg/L (Daphnia magna)

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.

**Other Adverse Effects**  
 No information available.

**13. DISPOSAL CONSIDERATIONS**

**PRODUCT AS SOLD**  
**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations  
**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

**PRODUCT AT USE DILUTION**  
 Dispose of in accordance of the federal, state, local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**  
**TSCA** Complies  
**DSL/NDSL** Complies

**Legend**  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL**- Canadian Domestic Substances List/Non-Domestic Substances List  
**U.S. Federal Regulations**

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	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

Chemical Name	CWA-Reportable Quantities	CWA- Toxic Pollutants	CWA-Priority Pollutants	CWA- Hazardous Substances
Pentasodium triphosphate	5000 lbs			X



**CERCLA**

This material, as supplied, contains a substance regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Pentasodium triphosphate	5000 lbs		RQ 5000 lbs final RQ

**U.S. State Regulations**

**California Proposition 65**

This product contains no Proposition 65 chemicals.

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

None.

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
<b><u>HMIS</u></b>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection A

Prepared By Sunburst Chemicals  
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 Bloomington, MN 55420  
 952-884-3144

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 Revision Note Update

**General Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**