

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Apple-Zyme

Other means of identification

Product Code 1445

Recommended use of the chemical and restrictions on use

Recommended use Enzyme Treatment for Drain System Maintenance and All-Purpose Cleaning.
Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312

Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Other Hazards

Harmful to aquatic life with long lasting effects.

Appearance: Yellow liquid

Physical state: Liquid

Odor: Green Apple

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which, at their given concentration, are considered to be hazardous to health. However, additional component information is available in subsequent sections of this SDS.

4. FIRST AID MEASURES

First aid measures

Skin Contact Wash with soap and water Get medical attention if symptoms occur.

Eye Contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effect, both acute and delayed

Symptoms May cause eye irritation. Prolonged or repeated skin contact may cause irritation. Mists of this product may irritate nasal passages. Large quantities may cause upset stomach, diarrhea, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Dry chemical. Foam. Carbon dioxide (CO₂). Water.

Unsuitable extinguishing media: No information available.

Specific hazards arising from the chemical

None known.

Hazardous Combustion Products: When strongly heated, as in a fire, this product may produce nitrous oxides and ammoniacal vapors.

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

Personal precautions Use personal protective equipment as required.

Methods and material for containment and cleaning up

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

Methods for cleaning up This product is biodegradable. Flush to sewage drain. This product may cause slippery conditions; Rinse thoroughly.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep this product in a properly labeled, tightly closed container. Do not allow this product to freeze, as the container may split or rupture.

Incompatible materials Oxidizers such as bleach.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls Mechanical ventilation recommended when handling in enclosed, tight spaces.

Engineering Controls

Individual protection measures, such as personal protective equipment

Eye/face protection	Safety glasses are recommended.
Skin and body protection	Chemical resistant gloves are recommended for prolonged exposure.
Respiratory protection	Normally not required.

General Hygiene 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	Yellow liquid
Color	Yellow
Odor	Green Apple
Odor threshold	

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	8-9	
Melting Point/Freezing Point	No information available.	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	None	
Evaporation Rate	1	(Water = 1)
Flammability (Solid, Gas)	Liquid-Not applicable	
Upper Flammability Limits	No information available.	
Lower Flammability Limit	No information available.	
Vapor Pressure	17.5 mmHg	
Vapor Density	No information available.	
Specific Gravity	0.987	(Water = 1)
Water Solubility	Soluble	
Solubility in other solvents	No information available.	
Partition Coefficient	No information available.	
Auto-ignition 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.	
VOC Content	None	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid

Excessive heat or cold. Incompatible Materials.

Incompatible materials

Oxidizers such as bleach.

Hazardous Decomposition Products

When strongly heated, as in a fire, this product may produce nitrous oxides and ammoniacal vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation	Do not inhale.
Eye contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Ingestion	Do not ingest.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Propylene Glycol 57-55-6	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Persistence and degradability

No Information available.

Bioaccumulation

No Information available.

Mobility

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 Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated.

IATA Not regulated.

IMDG Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION**International Inventories**

TSCA Listed.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations**SARA 313**

No information available.

US State Regulations**California Proposition 65**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Propylene Glycol 57-55-6	x		x

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards	No information available	Flammability	No information available	Instability	No information available	Special Hazards	No information available
<u>HMIS</u>	Health hazards	0	Flammability	0	Physical Hazards	0	Personal protection	B

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N/A = Not Applicable; N/D = Not Determined

Disclaimer

The information provided in this 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