

SAFETY DATA SHEET

Issue Date 12-2-2014

Revision Date July-21-2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name D.F.E. Bio-enyz

Other Means of Identification

SDS # 0143-QT

Product Code 0143-QT

Recommended Use of the Chemical and Restrictions on Use

Recommended Use

Gelled drain treatment

Details of the Supplier of the Safety Data Sheet

Supplier Address

ALCO-Chem, Inc.
45 N. Summit Street
Akron, OH 44308

Emergency Telephone Number

Company Phone Number 330-253-3535
Emergency Telephone 1-800-255-3924

2. HAZARDS IDENTIFICATION

GHS Classification

Not dangerous according to the Globally Harmonized System (GHS)

Signal Word

None

Symbols

None

Emergency Overview:

Physical State: Liquid

Color: Green

Odor: Citronella

OSHA/HCS status: This material is not considered hazardous by the OSHA Hazard Communication Standard(29 CFR 1910.1200).

Hazard Statements

No hazard statements.

Precautionary Statements-Prevention

Not applicable. See Safety Data Sheet Section 4: "First Aid Measures" for additional information.

Precautionary Statements – Response

Not applicable. See Safety Data Sheet Section 4: "First Aid Measures" for additional information.

Precautionary Statements – Storage

Not applicable. See Safety Data Sheet Section 4: "First Aid Measures" for additional information.

Precautionary Statements – Disposal

Not applicable. See Safety Data Sheet Section 4: "First Aid Measures" for additional information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	75-85
Enzymes	N/A	10-15
Surfactant	34398-01-1	0-5

The balance of the chemicals in this mixture are either considered nonhazardous or are below the listing limits for hazardous substances. These chemicals are considered trade secrets. The specific identity of these chemicals is available to health professionals

4. FIRST AID MEASURES

First Aid Measures

- Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists: Get medical attention.
- Skin Contact** IF ON SKIN (or hair): Wash with soap and water. If skin irritation occurs: Get medical attention.
- Inhalation** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
- Ingestion** IF SWALLOWED: Rinse mouth. Drink large quantities of water. Call a poison center or doctor if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

Specific Hazards Arising from the Chemical

Product does not support combustion.

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 Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Methods and Material for Containment and Cleaning Up

Methods for Containment For small spills, absorb on poly-pads or other suitable non-reactive absorbent material. Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Incompatible Materials None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACHIH TLV	OSHA PEL	NIOSH IDLH
Enzymes	Data not available	Data not available	Data not available
Surfactant	Data not available	Data not available	Data not available

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or other biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate Engineering Controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and the using the bathroom and at the end of the working periods.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes. Wear safety eyewear.

Skin and Body Protection Wear suitable protective clothing. Use impervious gloves.

Respiratory Protection Not required with expected use. Ensure adequate ventilation, especially in confined areas.

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	Odor	Citronella
Appearance	Green Liquid	Odor Threshold	Not determined
Color	Green		

Property

Values

pH	7.5
Melting Point/Freezing Point	Not determined
Boiling Point/Boiling Range	212 Deg F
Flash Point	n/a (tcp)
Evaporation Rate	(H20=1) =1
Flammability (Solid, Gas)	n/a-liquid
Upper Flammability Limits	UEL=n/a
Lower Flammability Limits	LEL=n/a
Vapor Pressure	20@68F
Vapor Density	Not determined
Specific Gravity	1
Water Solubility	Soluble in water
Solubility in Other Solvents	Not determined
Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature Kinematic	Not determined
Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known.

Hazardous Decomposition Products

Will not occur.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact May cause eye irritation.

Skin Contact May cause skin irritation.

Inhalation May cause respiratory irritation .

Ingestion May cause irritation to the intestine, mouth, throat and esophagus.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	90,000 mg/kg (rat)	Data not available	Data not available
Enzymes	Data not available	Data not available	Data not available
Surfactant	3,980 mg/kg (rat)	2,500 mg/kg (rabbit)	1.5 mg/l (rat) 4 h

Information on Physical, Chemical and 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

ATEmix-oral: mg/kg

ATEmix- dermal: mg/kg

ATEmix-inhalation:

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Enzymes	Data not available	Data not available	Data not available	Data not available
Surfactant	Data not available	10 mg/l 96 h	Data not available	Data not available

Persistence and Degradability

Not determined

Bioaccumulation

Not expected to bioaccumulate.

Other Adverse Effects

Not determined

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

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

DOT Not regulated.

IATA Not available.

IMDG Not available.

IDG Not regulated.

15. REGULATORY INFORMATION

International Inventories

Not determined

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.

Chemical Name	CAS No	Weight-%
None		

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
None			

California Prop 65: This product contains no chemicals known to the State of California to cause cancer and reproductive toxicity.

16. OTHER INFORMATION

<u>NEPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 1	Flammability 0	Physical Hazards 0	Personal Protection B

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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