



Biozyme

SECTION 1. IDENTIFICATION

Product Identifier	Biozyme
Other Means of Identification	1620
Recommended Use	Drain and Grease Trap Treatment.
Restrictions on Use	No information available.
Manufacturer/Supplier Identifier	Sunburst Chemicals, Inc., 220 W. 86th St., Bloomington, MN, 55420, 952-884-3144
Emergency Phone No.	Emergency Telephone Number, 1-866-303-6943
SDS No.	0005

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Classification

Acute toxicity (Oral) - Category 4

Label Elements



Signal Word:
Warning

Hazard Statement(s):
Harmful if swallowed.

Precautionary Statement(s):

Prevention:

Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

General Advice

IF exposed or concerned: Get medical attention/advice

Ingestion

IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
Rinse mouth.

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Storage:
Store locked up.

Disposal:
Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Not applicable.

PRODUCT AT USE DILUTION

Classification Category of Use Dilution: Not hazardous at use dilution.

Signal Word None.

Precautionary Statement(s):

Prevention:

Wash hands and skin thoroughly after handling.

General Response:

Get medical advice/ attention if you feel unwell

Storage:

Store in accordance with local regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Alcohols, C12-14-secondary, ethoxylated, liquids	84133-50-6	35-60		
Mixed Ethoxylated Alcohol	proprietary	10-20		
Benzenesulphonic acid, C10-C13 alkyl derivs., sodium salts	68411-30-3	10-20		
Alcohols, C14-15, ethoxylated	68951-67-7	10-20		
Sodium dioctyl sulfosuccinate	577-11-7	4-10		
Bacterial spore source.	proprietary	1-3		
Citral	5392-40-5	0-1		
Acid Violet 43	4430-18-6	0-0.001		

Notes

PRODUCT AT USE DILUTION

Contains ingredients listed above at weight % less than 0.5%

PRODUCT AT USE DILUTION

No hazardous ingredients at dilution level.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

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Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

PRODUCT AT USE DILUTION

EYE CONTACT:

Rinse with plenty of water.

SKIN CONTACT:

Rinse with plenty of water.

INHALATION:

Get medical attention if symptoms occur.

INGESTION:

Rinse mouth. Get medical attention if symptoms occur.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special Treatment**Special Instructions**

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing Media****Suitable Extinguishing Media**

Water. Carbon dioxide (CO₂). Dry chemical.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Not sensitive to static discharge.

Not sensitive to mechanical impact.

Special Protective Equipment and Precautions for Fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment, and Emergency Procedures**

Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Ensure adequate ventilation. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become slippery.

Environmental Precautions

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Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information. Dispose of contents/container to an approved waste disposal plant.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Collect and reuse if possible. Following product recovery, flush area with water.

Other Information

PRODUCT AT USE DILUTION

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing. Do not breathe spray mist. 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:

Prevent further leakage and leakage, mop or wipe up spilled solution. Rinse to drain.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

Conditions for Safe Storage

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

PRODUCT AT USE DILUTION

Precautions for Safe Handling:

Wash hands after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage:

Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Citral			5 ppm			

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

A5 = Not suspected as a human carcinogen.

Appropriate Engineering Controls

Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Not required, if used as directed. Rubber or vinyl gloves recommended when handling solid chemicals or their use

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solutions.

Respiratory Protection

Not normally required if product is used as directed. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Violet.
Odour	Lemon
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	48 °C (118 °F) (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not available
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not available
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Physical State	Solid
Use Dilution	Use dilution pH is 7.0 - 9.0 pH
VOC Content	VOC Content (%) = 0%

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

None known.

Incompatible Materials

None known.

Hazardous Decomposition Products

None known.

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SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Eye contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sodium dioctyl sulfosuccinate	Not available	3100 mg/kg (rat)	10000 mg/kg (rabbit)
Benzenesulphonic acid, C10-C13 alkyl derivs., sodium salts	Not available	1020 mg/kg (rat)	Not available
Citral	Not available	4960 mg/kg (rat)	2250 mg/kg (rabbit)
Alcohols, C12-14-secondary, ethoxylated, liquids		> 16000 mg/kg (rat)	16000 mg/kg (rabbit)
Alcohols, C14-15, ethoxylated	Not available	1000 mg/kg (rat)	> 2000 mg/kg (rat)

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

Causes skin irritation.

Serious Eye Damage/Irritation

Contact with eyes may cause irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause irritation of respiratory tract.

Ingestion

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information available.

Respiratory and/or Skin Sensitization

No information available.

Carcinogenicity

Not a carcinogen.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Not mutagenic.

Interactive Effects

No information was located.

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Other Information

PRODUCT AT USE DILUTION

Inhalation: May cause irritation of respiratory tract.

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Sodium dioctyl sulfosuccinate	54.5 mg/L (Lepomis macrochirus (bluegill); 96-hour)	35.9 mg/L (Daphnia magna (water flea); 48-hour)	Not available	Not available
Benzenesulphonic acid, C10-C13 alkyl derivs., sodium salts	1.67 mg/L (Lepomis macrochirus (bluegill); 96-hour)	2.9 mg/L (Daphnia magna (water flea); 48-hour)	Not available	29 mg/L (Pseudokirchneriella subcapitata (algae); 96-hour)
Citral	Not available	7 (Daphnia magna (water flea); 48-hour)	Not available	Not available
Alcohols, C12-14-secondary, ethoxylated, liquids	2000-2145 mg/L (Pimephales promelas (fathead minnow); 96-hour)	419.7 mg/L (Daphnia magna (water flea); 48-hour)		
Alcohols, C14-15, ethoxylated	0.9 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; static)	0.25 mg/L (Daphnia magna (water flea); 48-hour)	Not available	0.95 mg/L (96-hour)

Persistence and Degradability

No information available.

Bioaccumulative Potential

No information available.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Environmental Not applicable

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Hazards

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

SARA Title III - Section 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 Title III - Section 311/312:

Acute Health Hazard	Yes	
Chronic Health Hazard	No	
Fire Hazard	No	
Sudden Release of Pressure Hazard		No
Reactive Hazard		No

California Proposition 65

This product contains no Proposition 65 chemicals.

U.S. EPA Label Information

EPA Registration Number : Not applicable.

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).

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.).

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 1** **Flammability - 0** **Instability - 0**

SDS Prepared By Sunburst Chemicals.

Phone No. 952-884-3144

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Additional Information -----

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