

SAFETY DATA SHEET

DEOZYME LIQUID ENZYMES	SDS Number : DZ-446	Revision Date: 05/25/2015
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1. PRODUCT AND COMPANY IDENTIFICATION:

Product Name: DEOZYME LIQUID ENZYMES
 Product Code: DZ-446
 Product Use: Liquid Enzyme Odor Control Product
 Synonyms: Waterborne Bacteria and Enzyme Solution
 Chemical Formula: Mixture of substances listed below with nonhazardous additions
 Restrictions: Institutional, Commercial and Retail Use Only



Manufacturer: Surtec, Inc.
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 Tracy, CA 95376
 209.820.3700
 Toll Free 800.877.6330

Emergency contact: Chemtrec 800.424.9300
 CCN No. 21541

2. HAZARD IDENTIFICATION:

GHS CLASSIFICATION:

<u>HEALTH</u>	<u>ENVIRONMENTAL</u>	<u>PHYSICAL</u>
<p><i>This product is non-hazardous according to OSHA 29CFR 1910.1200</i></p>	<p><i>Acute Toxicity: None Known Chronic Toxicity: None Known</i></p>	<p><i>None</i></p>
<p><u>GHS Pictogram</u> <i>None</i></p>	<p><u>Signal Word:</u> <i>None</i></p>	
<p><u>Hazard Statements</u> May cause mild skin and eye irritation</p>		
<p><u>Precautionary Statements</u></p> <p>Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mists, vapors or spray.</p> <p>IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention. IF ON SKIN: Wash with soap and water. If irritation occurs and persists, get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell.</p> <p>Store in a closed container. Dispose of contents/container in accordance with local regulation.</p>		

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3. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT	CAS NO.	PERCENT	HAZARDOUS
NON-HAZARDOUS WATERBORNE LIQUID BACTERIA SOLUTION	N/A	8-12%	NO
NONYLPHENOL POLYETHYLENE GLYCOL ETHER	127087-87-0	<1%	YES
Exact Percentages are being withheld as trade secret information.			

4. FIRST-AID MEASURES:

Eye Contact: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Skin Contact: Wash with soap and water. If irritation occurs and persists, get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.

Ingestion: Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell.

5. FIRE-FIGHTING MEASURES:

Fire Extinguishing media: Use water spray dry chemical, carbon dioxide or regular foam. Move containers away from fire area if can be done without risk.

Hazards during fire-fighting:

Containers may rupture when exposed to extreme heat.

Protective equipment for fire-fighting:

Wear NFPA-approved self-contained breathing apparatus, helmet, hood, boots and gloves.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:

Use recommended personal protective clothing and equipment. To prevent slipping, do not walk through spilled material.

Environmental precautions:

Follow all Federal, State and Local regulations when storing and disposing of substances. Do not allow material to run off of work area, and material should be absorbed, collected and disposed of in accordance with regulations. Keep product from entering storm drains. Consult local and federal guidelines for proper disposal of these materials.

Cleanup:

- For small amounts of released material: Mop or vacuum up then transfer to suitable container for disposal. - For large amounts of released material: Dike around spilled material to contain. Spilled material may be mopped or vacuumed up, then transferred to plastic containers for disposal.

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7. HANDLING and STORAGE:

Handling:

General advice - No specific measures are necessary provided product and recommended protective clothing/equipment are used correctly. Do not mix with other chemicals. This is a commercial product, not intended for home use. Keep out of reach of children.

Storage:

General advice - Protect against physical damage. Store in tightly closed containers in a cool, well ventilated area. Do not allow product to freeze.

Shelf Life:

12 months

8. EXPOSURE CONTROLS and PERSONAL PROTECTION:

Advice on system design:

Provide local exhaust ventilation to control vapors for published exposure limits.

Personal protective equipment (HMIS rating 'B'):

Eye protection: Wear safety glasses with side shields or safety goggles to prevent exposure or full face shield if splash hazard exists.

Skin protection: Chemical-resistant gloves. Wear appropriate protective clothing to prevent possible skin contact.

Respiratory protection: Use proper NIOSH-OSHA respirator if ventilation is inadequate. Do not breathe mists, vapors or spray.

General safety and hygiene measures: Exercise stringent hygiene practices to minimize exposure.

If contact occurs, wash any body part with soap and water immediately. Wash hands after use, and before eating, drinking or smoking.

Other protective measures:

Nearby running water on the job site is necessary, should an accident occur.

Exposure Guidelines:

None

9. PHYSICAL and CHEMICAL PROPERTIES:

Appearance:	White Opaque Liquid	Flash Point:	> 200°F
Odor:	Pleasant	Upper/Lower Flammability Limits:	No information available
pH value:	5-7	Relative Density (water):	1.01
Specific gravity:	1.01 (H2O = 1)	Auto-Ignition Temperature:	No information available
Solidification temperature:	No information available	Decomposition temperature:	No information available
Freezing/Melting point:	32 °F (0 °C)	Partition Coefficient	No information available
Boiling point:	212°F (100 °C)	Odor Threshold	No information available
Vapor density:	No information available	Viscosity:	< 10 cps.
Vapor pressure:	No information available	Partition Coefficient	No information available
Evaporation Rate:	No information available	Solubility in water:	Miscible
Regulatory VOC:	<0.5% by weight		

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10. STABILITY and REACTIVITY:

Conditions to avoid: Freezing. Excessive heat or flame.

Substances to avoid: Strong oxidizing agents, acids and bases.

Hazardous reactions: Product is chemically stable under normal conditions of use and storage.

Decomposition or By-products: In fire conditions: carbon monoxide (CO), carbon dioxide (CO₂).

11. TOXICOLOGY INFORMATION:

Acute Toxicity (Symptoms):

Oral: Ingestion may cause nausea, vomiting, and diarrhea.

Eye irritation: Mild irritation, redness and tearing.

Skin irritation: Mild irritation and redness.

Inhalation: May cause minor irritation to the respiratory tract. Avoid breathing spray or mist.

Sensitization: Skin: N/A. Respiratory: N/A

Chronic Toxicity:

Other information: No carcinogenic substances as defined by IARC, NTP and/or OSHA.

12. ECOLOGICAL INFORMATION:

Biodegradation:

Test method: Unspecified

Analysis method: Unspecified

Degree of elimination: Not Established

Environmental toxicity:

Acute and prolonged toxicity to fish: Not Established

Toxicity to microorganisms: Not Established

Other ecotoxicological advice: Not Established

13. DISPOSAL CONSIDERATIONS:

Waste disposal of substance: Dispose of in accordance with all Federal, State and Local regulations when storing and disposing of substances. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA (EPA regulations for hazardous waste).

Container disposal: Dispose of in a licensed facility in accordance with local regulations.

RCRA:

Unspecified.

14. TRANSPORTATION INFORMATION:

DOT:

Proper Shipping Name: COMPOUND CLEANING LIQUID (NON-HAZARDOUS)

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15. REGULATORY INFORMATION:

Federal Regulations:

Registration status:

TSCA, US:

All components are listed or exempt.

SARA hazard category (EPCRA 311/312): Acute health hazard

SARA TITLE III, SECTION 313:

CAS Number: _____ Chemical Name:

None

State Regulations:

Chemicals known to the State of California to cause cancer, birth defects or other reproductive harm

CAS Number: _____ Chemical Name:

None

16. OTHER INFORMATION:

NFPA Rating:

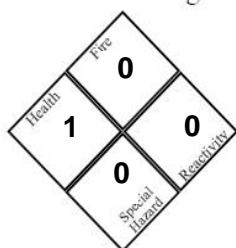
Health: 1 Fire: 0 Reactivity: 0 Special Hazard: none

HMIS III Rating:

Health: 1 Flammability: 0 Physical Hazard: 0
Personal Protection: B (safety glasses with side shields and chemical-resistant gloves)

Both NFPA and HMIS III rating systems use a numbering scale that ranges from 0 to 4 to indicate the degree of hazard. A value of zero means the substance possesses no hazard while a value of four indicates high hazard.

NFPA Rating



HMIS Rating

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

Prepared by: Surtec, Inc. 05/25/2015 **Revision No.:** 03

Local Contact Information:

Surtec, Inc.

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Notice: The information provided is accurate to the best of our knowledge and is offered in good faith. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in specific context of the intended use and determine whether they are appropriate.

Warranty: This is a proprietary SURTEC product, warranted to be of uniform quality within our stringent manufacturing tolerances. As no control is exercised over product use, no warranty is made as to the effects of such use (neither expressed nor implied). Obligation of the seller and manufacturer under this warranty shall be limited to a refund of the purchase price of that portion of the material proven to be defective. The user assumes all other risk and liability resulting from uses of this product. Contact SURTEC with any questions regarding this policy.