



Product Name: ProZyme
Revision Date: 03/03/2014

SAFETY DATA SHEET

SECTION 1	MATERIAL AND MANUFACTURER IDENTIFICATION
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Product Identifier: ProZyme
Product Use: Carpet Cleaning Enzyme Pre-spray
Product Identifier:

MANUFACTURER

CTI (Chemical Technologies International Inc.)
PO Box 968
Rancho Cordova, CA 95741
Phone: (916) 638-1315 Fax: (916) 638-0712
Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

SECTION 2	HAZARD(S) IDENTIFICATION
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GHS CLASSIFICATION

Acute Toxicity, Oral (Category 4)
Acute Toxicity, Dermal (Category 4)
Serious Eye Damage and Irritation (Category 2B)
Acute Toxicity, Inhalation (Category 5)

Routes of Exposure: Eye contact, skin contact, inhalation, and ingestion.

Inhalation: Unlikely to occur when used as directed. Excessive exposure may cause irritation of the respiratory tract

Eye Contact: May cause severe irritation with possible permanent eye damage.

Skin Contact: Repeated, prolonged exposure may cause skin irritation, drying, chapping.

Ingestion: Very small quantity is unlikely to cause injury. Larger quantity may cause injury; if swallowed can cause gastrointestinal irritation; including but limited to nausea, vomiting and diarrhea.

Carcinogenic Potential: Not established

Acute Effects: This product is considered to be a potential irritant. This product should not be used for any other purpose than the intended use in section 1.

Chronic Effects: Not established



Health hazard	2
Flammability hazard	0
Reactivity hazard	0
Other hazard	

Signal word: **WARNING**

Hazard statement(s):

H302: Harmful if swallowed;
H313: May be harmful in contact with skin;
H320: Causes eye irritation;
H333: Maybe harmful if inhaled.



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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS #	CONCENTRATIONS
1. EDTA Sodium Salt	13235-36-4	1-10%
2. Surfactant Blend	not established	20-40%
3. Sodium Tripolyphosphate	7758-29-4	50-75%
4. D-Limonene	5989-27-5	1-10%

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SECTION 4 FIRST-AID MEASURES

Inhalation: Remove from further exposure to fresh air. If respiratory irritation, dizziness, or nausea occurs seek immediate medical attention.

Eye Contact: Flush eyes with a directed stream of water for 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes immediately after exposure is essential to achieve maximum effectiveness and minimize potential irritation. If irritation persists, seek immediate medical attention.

Skin Contact: Wash contact areas with soap and water. Launder exposed clothing before reuse.

Ingestion: If swallowed, do not induce vomiting. Seek immediate medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

FLAMMABILITY PROPERTIES

Flashpoint: N/A

Flammable Limits: N/A

Auto ignition Temperature: N/A

FIREFIGHTING PROCEDURES

General Hazard: Smoke may contain original material, in addition to toxic and/or irritating compounds. Avoid heat or open flames

Firefighting Instructions: Evacuate all unnecessary personnel. Use dry chemical, CO₂, water, foam or appropriate extinguishing media for fires where water is not appropriate. No special firefighting instructions.

Firefighting Equipment: Firefighters should wear NIOSH/MSHA approved self-contained, positive pressure breathing apparatus and full protective clothing.

Hazardous Combustion Products: Combustion may release oxides of carbon and sulfur.

Unusual Fire and Explosion Hazards: This material will not burn until the water has evaporated.

Residue can burn. Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Persons performing the clean up should wear personal protective equipment sufficient to keep material away from skin. Avoid direct contact with material. See section 4 for First-Aid Advice. See section 5 for Firefighting Advice.

PROTECTIVE MEASURES

To minimize exposure to all chemicals, including this product, use good industrial hygiene and common sense. Use only in well ventilated area. If necessary, use exhaust ventilation to insure adequate ventilation. Insure that water is readily available and that you are prepared to properly wash out your eyes should the need arise. (See section 4 for more advice). Wear NIOSH/MSHA approved organic respirator when ventilation is not adequate or when the sufficiency of ventilation to maintain concentrations below exposure limits is in question. Wear chemical safety goggles to protect against splashes or contact with eyes. See OSHA 29 CFR 1910.33

CLEAN-UP PROCEDURES

Small Spills: Wipe up or mop to dispose of spill in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, and dispose into DOT approved waste container. If possible complete clean up on a dry basis. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste. Contain all spills or leaks to prevent discharge into the environment. Responsibility of all spills or releases reported to the appropriate local, state and federal agencies falls upon the user.

SECTION 7 HANDLING AND STORAGE

HANDLING

This product is professional strength product to be used by professionals only. Avoid breathing dust of this product. Always keep container tightly closed and properly labels. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Impervious boots/shoes covering should be used if material is anticipated to contact feet. As with all chemicals, practice good industrial hygiene when handling this product. In other words, always work in a well-ventilated area and avoid inhalation of product dust do not ingest or have contact with your eyes or skin.

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

STORAGE

Avoid excessive heat. Avoid storage with oxidizing or reducing agents and acids. Employees should be trained to handle this product safely. Store the product in a cool dry area away from ignition sources. Loosen closures cautiously. Product may become a solid at temperatures below 0°C (32°F).

Storage temperature: Store in cool dry place

Storage pressure: Atmospheric



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SECTION 8 EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS

Exposure limits have not been established for this mixture. Avoid, as far as reasonably practicable, inhalation of vapor, mists or fumes generated. However, limits for components listed below:

COMPONENT #	OSHA PEL TWA STEL	ACGIH TLV TWA STEL	NIOSH TWA STEL
1. EDTA Sodium Salt	Not Established	Not Established	Not Established
2. Surfactant Blend	Not Established	Not Established	Not Established
3. Sodium Tripolyphosphate	This product does not have hazardous materials with occupational exposure levels		
4. D-Limonene	Not Established	30 ppm	Not Established

ENGINEERING CONTROLS

The level of protection and types of control will vary depending upon potential exposure conditions. If user operations generate dust, fume or mist, use adequate ventilation to keep exposure below exposure limit.

PERSONAL PROTECTION

Ventilation and engineering controls: Use only in well-ventilated area. If necessary, use exhaust ventilation to insure adequate ventilation. Insure that water is readily available and that you are prepared to properly wash out your eyes should the need arise. (Refer to section 4).

Respiratory: Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Eye Protection: Wear safety goggles to protect against eye contact. See OSHA 29 CFR 1910.33

Skin: Wear chemical impervious gloves. Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

Other: One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: Liquid

Odor: citrus scent

Vapor density: N/A

Freezing point: N/A

Solubility in water: soluble

Flammability: N/A

Evaporation rate: N/A

Upper/lower flammability or explosive limits: N/A

Odor threshold: N/A

Flash point: N/A

Evaporation rate: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Auto-ignition temperature: N/A

Color: Off White

pH: 10.5 at 30:1, 12.0 as shipped

Boiling point: <100C

Melting point: N/A

Density: N/A

Particle size: N/A

Viscosity: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density: N/A

Flammability (solid, gas): N/A

Decomposition temperature: N/A

Vapor density: N/A

Partition coefficient: n-octanol/water: N/A



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Keep away from heat or excessive pressure. Active ingredient decomposes at elevated temperatures.

Incompatibility with other materials: Although the mixture has no known incompatibilities, some **components** of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Sulfur oxides and Carbon oxides.

Hazardous polymerization: Major components of this mixture show no hazardous polymerization.

Conditions to Avoid: Strong Acids, Lead, Tin/Tin Oxides, Zinc and Aluminum.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicological information has not been established on this mixture. Toxicological information on components within this mixture is given by:

COMPONENT #	TOXICITY
1. EDTA Sodium Salt	LD ₅₀ Oral - rat – 630-1,260 mg/kg
2. Surfactant Blend	Not Established
3. Sodium Tripolyphosphate	LD ₅₀ Oral - rat - 3100 mg/kg LD ₅₀ Dermal - rabbit - 4640 mg/kg
4. D-Limonene	Not established, not acutely toxic

SECTION 12 ECOLOGICAL INFORMATION

Ecological information has not been established for this product. Ecological information on components within this mixture is given by:

COMPONENT #	TOXICITY
1. EDTA Sodium Salt	Not Established
2. Surfactant Blend	Not Established
3. Sodium Tripolyphosphate	Toxicity to fish LC ₅₀ – freshwater fish - 1650 mg/l - 48 h
4. D-Limonene	Not established, not acutely toxic



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SECTION 13	DISPOSAL CONSIDERATIONS
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Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

SECTION 14	TRANSPORT INFORMATION
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Not a hazardous material as shipped per 49 CFR table 172.101 Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

DOT (US)

Proper Shipping Name Consumer Commodity

Hazard Class ORM-D

Description Consumer commodity, ORM-D

SECTION 15	REGULATORY INFORMATION
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US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheet (SDS) sheets, training and access to written records. We request that you, as per your legal duty to, make all information in this SDS available to your employees and those who handle or consume the product. To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below

This mixture has *no established regulatory information* all regulatory information given is based on individual components of the mixture by component number

COMPONENT

1. EDTA Sodium Salt

REGULATION

OSHA Hazards: Harmful by ingestion, Irritant

SARA 311/312 Hazards: Acute Health Hazard

MA, PA, and NJ Right to Know: Ethylenediaminetetraacetic acid tetrasodium salt hydrate CAS-No.194491-31-1

2. Surfactant Blend

Not Established

3. Sodium Tripolyphosphate

Not Established

4. D-Limonene

Not established. GRAS as safe by FDA. EPA has granted D-Limonene to be used as fragrance/solvent. Not a carcinogen, developmental toxicant or mutagenic compound.



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SECTION 16	OTHER INFORMATION
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While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. This SDS summarizes to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources of each individual component. Since CTI cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. User assumes all risks incident to the use of this (these) product(s). Users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.