	1.	Product and Company Identification
Product Name		ENZ-OUT
CAS#		Mixture
Product Use		Enzyme spot remover for carpet/fabric
Manufacturer		CFR, A Division of Tacony Corporation
		3101 Wichita Court
		Fort Worth, TX 76140-1710
Emergency Telephone	Number	1-800-270-5201
Company Contact		1-800-880-2913 or website <u>www.cfrcorp.com</u>
HMIS LEGEND		
Severe 4		Health 1
Serious 3		Flammability 0

Reactivity

Personal Protection

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Moderate

Minimal 0

Slight

2. Hazards Identification

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Emergency Overview	Caution: Eye and skin irritant
Potential short term effects	•
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	May cause irritation.
Skin	Contact with skin may cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Eyes, Skin
Chronic effects	Prolonged exposure can cause drying, defatting, or dermatitis.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of skin.
	Symptoms of over exposure may be headache, dizziness, tiredness, nausea and
	vomiting

3. Hazardous Ingredients

The criteria for listing components in this section are: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. This is not a composition disclosure.

Hazardous Components	CAS#	%(optional)
Alkoxylated linear alcohols	52232-09-04, 37311-02-7, 37251-67-5	< 5%
Enz-Out contains Alpha Amylase and Protease I	Enzymes. Not considered hazardous per 29Cl	FR 1910-1200.

4. First Aid Measures		
First Aid Procedures		
Eye Contact	Flush with cool running water for 15 minutes. If irritation persists, get medical attention.	
Skin Contact	Flush with cool water, Wash with soap and water, If irritation persists, get medical Attention.	
Inhalation	If symptoms develop, move to fresh air. If symptoms persist, get medical attention	
Ingestion	Rinse mouth with water. Drink one or two glasses of water. Do not induce vomiting. Obtain medical attention. Never give anything by mouth to an unconscious person.	
Notes to Physician General advice	Symptoms may be delayed. Seek medical attention if feeling unwell. Show the MSDS to the physician in attendance.	

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5. Fire-fighting Measures

Flammable properties	Not flammable	
Extinguishing media	Treat for surrounding material.	
Protection of firefighters	Firefighters should wear protective clothing including self contained breathing apparatus	
Hazardous combustion products	May include and not limited to oxides of carbon.	
Unusual Fire, Explosion hazards		
	6. Accidental Release Measures	
Personal precautions	Keep unnecessary personal away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled containers unless wearing protective Clothing. Stay upwind of spills or leaks.	
Methods for containment Methods for cleaning up	Stop leak if you can do so without risk. Prevent entry into waterways, sewers. Before attempting clean up refer to hazard data given above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or water ways. Large spills: wet down with water and dike for later disposal. After removal, flush thoroughly with water. Contact emergency personnel or supplier for advice. Never return spill to original container for reuse	
	7. Handling and Storage	
Handling Storage	Use good industrial hygiene practices when handling this material Keep out of reach of children. Keep from freezing, store in a cool dry place away from incompatible materials.	

8. Exposure Controls and Personal Protection

Exposure limits		
Ingredients	OSHA PEL	ACGIH TLV
Alkoxylated linear alcohols	Not established	Not established
Engineering controls	General ventilation normally adeq	uate
Personal protective equipment		
Eye/Face protection	Wear safety glasses with side shields.	
Hand protection	Rubber or nitrile gloves.	
Skin and body	As required by employer code.	
Respiratory protection	Use a NIOSH approved respirator when exposure guidelines are exceeded.	
General hygiene considerations	Handle in accordance with good in	ndustrial hygiene practices. Do not eat or drink well before breaks and immediately after
	nandning the product.	

9. Physical and Chemical Properties

Appearance/form	Clear liquid
Color	Light tan to colorless
Odor	Natural
рН	7.0-8.0
Boiling point	> 212° F.
Specific gravity	1.02-1.05
Evaporation rate	Not Available
Vapor pressure	Not Available
Vapor density	Not Available
Flash point	None
Solubility in water	Complete
VOC	< 1%
% Volatile	Approx. 95%

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10. Stability and Reactivity

Chemical Stability	Stable under normal storage conditions.
Conditions to avoid	Do not mix with other chemicals. High temperatures degrade enzymes.
Incompatible materials	Acids and oxidizers.
Hazardous decomposition products	May include but not limited to oxides of carbon.
Hazardous polymerization	Will not occur

	11. Toxicological information	
Ingredients	LC50	
Alkoxylated .linear alcohols	Not available	
Ingredients	LD50	
Alkoxylated linear alcohols	3000 mg/kg rat	
Effects of acute exposure		
Eye	May cause irritation	
Skin	May cause irritation.	
Inhalation	May cause respiratory tract irritation	
Ingestion	May cause stomach distress, nausea, or vomiting.	
Sensitization	Contains potential respiratory tract sensitizers.	
Chronic effects	Non hazardous.	
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.	
Mutagenicity	Non hazardous.	
Reproductive effects	Non hazardous.	
Teratogenicity	Non hazardous.	

11. Toxicological Information

12. Ecological Information

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Eco-toxicity	Components of this product have been identified as having potential	
	environmental concerns.	
Eco-toxicity-Fresh water Algae	data	
1,2-Propylene glycol 57-55-6	96 Hr EC50 Selenastrum capricomutum: 19000 mg/L	
Eco-toxicity-Freshwater Fish S	pecies data	
1,2-Propylene glycol 57-55-6	96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L (static)	
	96 Hr LC50 Pimephales promelas: 51400 mg/L (static)	
Eco-toxicity-Microtox data		
1.2-Propylene glycol 57-55-6	30 min EC50 Photobacterium phosphoreum: 710 mg/L	
Eco-toxicity-Water flea data		
1,2-Propylene glycol 57-55-6	48 Hr EC50 water flea: 10000 mg/L	
Environmental effects	Not Available	
Aquatic toxicity	Not Available	
Persistence and Degradability	Not Available	
Bioaccumulation/accumulation	Not Available	
Partition coefficient	Not Available	
Mobility in environmental media	Not Available	
Chemical fate information	Not Available	
Other adverse effects	Not Available	

13. Disposal Considerations

Waste codes	Not Available
Disposal instructions	Dispose in accordance with local, state, and federal regulations
Wastes from residues/unused	Containerize. Rinse area with water. Keep out of storm sewer/waterways.
Product Contaminated packaging	Dispose in accordance with all applicable regulations.

14. Transport Information

Basic shipping requirements: Proper shipping name Hazard class UN number Packing group Special provisions Packaging exceptions Not DOT regulated

15. Regulatory Information

This product has been classified in accordance with the Occupational Safety and	
Health Administration hazard criteria a	nd the MSDS contains all of the
information required by OSHA.	
Irritant	
Inventory Name	On Inventory (Yes/No)*
Chemical Inventory List	Yes
Domestic substances list	Yes
	Health Administration hazard criteria a information required by OSHA. Irritant Inventory Name Chemical Inventory List

• A "Yes" indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

16. Other Information

Disclaimer

To the best of our knowledge, the information included herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Issue date Supersedes date Reason for update Expiration date December 4, 2010 May 12, 2006 Conform to OSHA requirement December 4, 2013