MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name ENZ-OUT CAS# Mixture

Product Use Enzyme spot remover for carpet and fabrics

Manufacturer CFR, A Division of Tacony Corporation

3101 Wichita Court

Fort Worth, TX 76140-1710

Emergency Telephone Number 1-800-270-5201

Company Contact 1-800-533-2557 or website <u>www.cfrcorp.com</u>

HMIS LEGEND

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0



2. Hazards Identification

Emergency Overview Warning: Eye and skin irritant

Potential short term effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

SkinContact with skin may cause irritation.InhalationMay 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 Enzymes. Not considered hazardous per 29CFR 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 Symptoms may be delayed.

General advice Seek medical attention if feeling unwell. Show the MSDS to the physician in

attendance.

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

pparatus

Hazardous combustion products May include and not limited to oxides of carbon.

Unusual Fire, Explosion hazards None known.

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 Use good industrial hygiene practices when handling this material

Storage 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

Personal protective equipment

General ventilation normally adequate

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 respira

Respiratory protectionUse a NIOSH approved respirator when exposure guidelines are exceeded. **General hygiene considerations**Handle in accordance with good industrial hygiene practices. Do not eat or drink

when using product. Wash hands well before breaks and immediately after

handling the product.

9. Physical and Chemical Properties

Appearance/form Clear liquid

Color Light tan to colorless

Odor Natural pН 7.0-8.0 > 212° F. **Boiling point 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%

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

IngredientsLC50Alkoxylated .linear alcoholsNot availableIngredientsLD50Alkoxylated linear alcohols3000 mg/kg rat

Alkoxylated linear alcohols

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.

MutagenicityNon hazardous.Reproductive effectsNon hazardous.TeratogenicityNon hazardous.

12. Ecological Information

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 Species 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 Not Available **Persistence and Degradability** 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

U.S federal regulations

This product has been classified in accordance with the Occupational Safety and

Health Administration hazard criteria and the MSDS contains all of the

information required by OSHA.

Irritant

HMIS classification

Inventory Status

Countries Inventory Name On Inventory (Yes/No)*

U.S. Chemical Inventory List Yes
Canada Domestic substances list Yes

• A õYesö 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.

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Reason for update Conform to OSHA update requirement

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