

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name ENZ-SOIL ONE
CAS# Mixture
Product Use Carpet cleaner
Manufacturer CFR, A Division of Tacony Corporation
3101 Wichita Court
Fort Worth, TX 76140-1710
Emergency Telephone Number 1-800-270-5201
Company Contact 1800-533-2557 or website www.cfrcorp.com

HMIS LEGEND

Severe	4	Health	2
Serious	3	Flammability	0
Moderate	2	Reactivity	0
Slight	1	Personal Protection	B
Minimal	0		

2. Hazards Identification

Emergency Overview **Danger: Eye and skin irritant. Contains material which may cause cancer.**

Potential short term effects

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

Eyes May cause severe irritation, or chemical burns.

Skin Contact with skin causes irritation.

Inhalation Excessive inhalation may cause respiratory tract irritation, headache, dizziness.

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Target organs Eyes, Skin, Respiratory system.

Chronic effects Prolonged skin exposure can cause drying, defatting, or dermatitis.

Signs and symptoms Product causes burns of eyes, skin, and mucous membranes.
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)
Sodium Carbonate	497-19-8	< 6%
Sodium Sesquicarbonate	533-96-0	< 6%
Aklydiphenyloxyde disulfonate	36445-71-3, 70146-13-3	< 5%
Titanium dioxide	13463-67-7	< 3%

Enz-Soil One contains alpha amylase and protease enzymes not considered hazardous per 29CFR 1910.1200

4. First Aid Measures

First Aid Procedures

Eye Contact Immediately flush with cool running water for 15 minutes. Remove contact lenses if applicable. Get medical attention immediately.

Skin Contact Brush away excess dry material. Immediately flush with cool water for 15 minutes. 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 apparatus
Hazardous combustion products	May include and not limited to oxides of carbon and oxides of sulfur.
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	Stop leak if you can do so without risk. Prevent entry into waterways, sewers.
Methods for cleaning up	Before attempting clean up refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or water ways. Contact emergency personnel or supplier for advice. Never return spilled material to the original container for reuse.

7. Handling and Storage

Handling	Use good industrial hygiene practices when handling this material. Do not get this material in your eyes, on your skin, or on your clothing.
Storage	Keep out of reach of children. Store in a cool dry place away from incompatible materials.

8. Exposure Controls and Personal Protection

Exposure limits		
Ingredients	OSHA PEL	ACGIH TLV
Sodium carbonate	Not established	Not established
Sodium bicarbonate	Not established	Not established
Alkydiphenyloxide disulfonate	Not established	Not established
Titanium dioxide	Not established	10 mg/m ³
Engineering controls	General ventilation normally adequate	
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 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	Solid
Color	White with blue specks.
Odor	slight organic
pH	10.0-10.2 (1% solution)
Boiling point	not applicable
Density	0.805-8.10
Evaporation rate	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Solubility in water	soluble or dispersible to at least 5%

Flash point	None
VOC	< 1%
% Volatile	< 3%

c10. Stability and Reactivity

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

11. Toxicological Information

Ingredients	LC50
Sodium carbonate	400 mg/m ³ guinea pig
Sodium bicarbonate	Not available
Alkyldiphenyloxide disulfonate	Not available
Titanium dioxide	Not available
Ingredients	LD50
Sodium carbonate	4090 mg/kg rat
Sodium bicarbonate	5600 mg/kg rat
Alkydiphenyloxide disulfonate	3562 mg/kg rat
Titanium dioxide	2400 mg/kg rat
Effects of acute exposure	
Eye	May cause sever irritation, or chemical burns.
Skin	Causes irritation.
Inhalation	Excessive inhalation may cause respiratory tract irritation, headache, dizziness.
Ingestion	Harmful if swallowed. May cause stomach distress, nausea, or vomiting.
Sensitization	Contains potential respiratory tract sensitizers.
Chronic effects	Non hazardous.
Carcinogenicity	Contains a potential carcinogen.
Titanium dioxide	IARC Group 28, possibly carcinogenic to humans. Not considered carcinogenic by NTP or OSHA
Mutagenicity	Non hazardous.
Reproductive effects	Non hazardous.
Teratogenicity	Non hazardous.

12. Ecological Information

Eco-toxicity	Components of this product have been identified as having potential environmental concerns.
Eco-toxicity-Fresh water Algae data	
Sodium carbonate 497-19-8	120Hr EC50 Nitzschia: 242mg/L
Eco-toxicity-Freshwater Fish Species data	
Sodium carbonate	96 Hr LC50 Lepomis macrochirus: 300 mg/L (static)
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 product	Containerize. Rinse area with water. Keep out of storm sewer/waterways.
Contaminated packaging	Dispose in accordance with all applicable regulations.

14. Transport Information

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

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.
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HMIS classification Corrosive material

Inventory Status

Countries	Inventory Name	On Inventory (Yes/No)*
U.S.	Chemical Inventory List	Yes
Canada	Domestic substances list	Yes

- A δ Yes δ 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

March 1, 2014

Supersedes date

November 10, 2010

Reason for update

Conform to OSHA update requirements

Expiration date

March 1, 2017