

# 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** 1800-880-2913 or website [www.cfrcorp.com](http://www.cfrcorp.com)

### HMIS LEGEND

Severe	4	<b>Health</b>	<b>2</b>
Serious	3	<b>Flammability</b>	<b>0</b>
Moderate	2	<b>Reactivity</b>	<b>0</b>
Slight	1	<b>Personal Protection</b>	<b>B</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 General advice

Symptoms may be delayed.  
Seek medical attention if feeling unwell. Show the MSDS to the physician in attendance.

## 5. Fire-fighting Measures

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<b>Flammable properties</b>	Not flammable
<b>Extinguishing media</b>	Treat for surrounding material.
<b>Protection of firefighters</b>	Firefighters should wear protective clothing including self contained breathing apparatus
<b>Hazardous combustion products</b>	May include and not limited to oxides of carbon and oxides of sulfur.
<b>Unusual Fire, Explosion hazards</b>	None known.

## 6. Accidental Release Measures

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<b>Personal precautions</b>	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.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers.
<b>Methods for cleaning up</b>	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

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

## 8. Exposure Controls and Personal Protection

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<b>Exposure limits</b>		
<b>Ingredients</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
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 <sup>3</sup>
<b>Engineering controls</b>	General ventilation normally adequate	
<b>Personal protective equipment</b>		
<b>Eye/Face protection</b>	Wear safety glasses with side shields.	
<b>Hand protection</b>	Rubber or nitrile gloves.	
<b>Skin and body</b>	As required by employer code.	
<b>Respiratory protection</b>	Use a NIOSH approved respirator when exposure guidelines are exceeded.	
<b>General hygiene considerations</b>	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

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<b>Appearance/form</b>	Solid
<b>Color</b>	White with blue specks.
<b>Odor</b>	slight organic
<b>pH</b>	10.0-10.2 (1% solution)
<b>Boiling point</b>	not applicable
<b>Density</b>	0.805-8.10
<b>Evaporation rate</b>	Not applicable
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Solubility in water</b>	soluble or dispersible to at least 5%

<b>Flash point</b>	None
<b>VOC</b>	< 1%
<b>% Volatile</b>	< 3%

## c10. Stability and Reactivity

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

## 11. Toxicological Information

<b>Ingredients</b>	<b>LC50</b>
Sodium carbonate	400 mg/m <sup>3</sup> guinea pig
Sodium bicarbonate	Not available
Alkyldiphenyloxide disulfonate	Not available
Titanium dioxide	Not available
<b>Ingredients</b>	<b>LD50</b>
Sodium carbonate	4090 mg/kg rat
Sodium bicarbonate	5600 mg/kg rat
Alkydiphenyloxide disulfonate	3562 mg/kg rat
Titanium dioxide	24000 mg/kg rat
<b>Effects of acute exposure</b>	
<b>Eye</b>	May cause sever irritation, or chemical burns.
<b>Skin</b>	Causes irritation.
<b>Inhalation</b>	Excessive inhalation may cause respiratory tract irritation, headache, dizziness.
<b>Ingestion</b>	Harmful if swallowed. May cause stomach distress, nausea, or vomiting.
<b>Sensitization</b>	Contains potential respiratory tract sensitizers.
<b>Chronic effects</b>	Non hazardous.
<b>Carcinogenicity</b>	Contains a potential carcinogen.
Titanium dioxide	IARC Group 28, possibly carcinogenic to humans. Not considered carcinogenic by NTP or OSHA
<b>Mutagenicity</b>	Non hazardous.
<b>Reproductive effects</b>	Non hazardous.
<b>Teratogenicity</b>	Non hazardous.

## 12. Ecological Information

<b>Eco-toxicity</b>	Components of this product have been identified as having potential environmental concerns.
<b>Eco-toxicity-Fresh water Algae data</b>	
Sodium carbonate 497-19-8	120Hr EC50 Nitzschia: 242mg/L
<b>Eco-toxicity-Freshwater Fish Species data</b>	
Sodium carbonate	96 Hr LC50 Lepomis macrochirus: 300 mg/L (static)
<b>Environmental effects</b>	Not Available
<b>Aquatic toxicity</b>	Not Available
<b>Persistence and Degradability</b>	Not Available
<b>Bioaccumulation/accumulation</b>	Not Available
<b>Partition coefficient</b>	Not Available
<b>Mobility in environmental media</b>	Not Available
<b>Chemical fate information</b>	Not Available
<b>Other adverse effects</b>	Not Available

### 13. Disposal Considerations

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

### 14. Transport Information

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

### 15. Regulatory Information

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<b>U.S federal regulations</b>	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**

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

- 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

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**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.

<b>Issue date</b>	November 10, 2010
<b>Supersedes date</b>	May 12, 2006
<b>Reason for update</b>	Conform to OSHA requirements
<b>Expiration date</b>	November 10, 2013