



SAFETY DATA SHEET

1. Product and Company Identification

Product Name	ENZ-SOIL ONE
Product Number	3BK
Product Type	Mixture
Product Use	Powder carpet cleaner containing enzymes.
Manufacturer	CFR, A Division of Tacony Corporation 3101 Wichita Court Fort Worth, TX 76140-1710
Company Contact	1-800-533-2557 or website www.cfrcorp.com
Emergency Telephone Number	1-800-270-5201

2. Hazards Identification

GHS Classification in accordance with 29CFR 1910 OSHA HCS

Skin corrosion/irritation, (Category 3) H316
Serious eye damage/eye irritation, (Category 2B) H320
Acute aquatic toxicity, (Category 3) H401

GHS Label elements, including precautionary statements

Pictogram None required

Signal Word Warning

Hazard Statements

H316 Causes mild skin irritation.
H320 Causes eye irritation.
H401 Toxic to aquatic life.

Precautionary Statements

Prevention

P264 Wash and rinse hands and exposed skin after handling concentrated product.
P273 Avoid release to the environment.

Response

P332+P313 If skin irritation occurs, get medical attention.
P305+P351+P338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists, get medical attention.

Storage/Disposal

P501 Dispose of contents/container in accordance with local, regional and federal regulations

3. Composition/Information on Ingredients

The criteria for listing components in this section are: Ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed. Non hazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.



Hazardous Components	CAS#	Classification	%
Sodium Bicarbonate	533-96-0	H320	50-70%
Sodium Carbonate	497-19-8	H320	15-30%
Alcohols, C6-C10 ethoxylated propoxylated	68987-81-5	H319, H402	1-10%
Dodecyldiphenyloxide disulfonate sodium salt*	119345-04-9	H316, H320, H401	1-3%

Enz-Soil one contains alpha amylase and protease enzymes not considered hazardous per 29CFR1910.1200

*Tech name: Benzene, 1-1-oxybis-, tetrapropylene derives., sulfonated, sodium salts

4. First Aid Measures

Description of First Aid Procedures

In case of Eye Contact	Flush with cool running water for 15 minutes. If irritation persists, get medical attention.
In case of Skin Contact	Flush with cool water, Wash with soap and water, If irritation persists, get medical Attention.
If Inhaled	If symptoms develop, move to fresh air. If symptoms persist, get medical attention
If Ingested	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 SDS 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. Small spills may be shoveled up and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or water ways. Dike spill. Shovel up and place in a suitable, covered, labeled container for disposal. Never return spill to original container for reuse.
Environmental Precautions	Avoid release to the environment.

7. Handling and Storage

Precautions for Safe Handling	Use good industrial hygiene practices when handling this material
Conditions for Safe Storage	Store in a cool dry place away from incompatible materials.

8. Exposure Controls and Personal Protection

Exposure limits

Ingredients	CAS-No	OSHA PEL	ACGIH TLV
Sodium bicarbonate	533-96-0	15 mg/m ³ total dust, 5mg/m ³ (resp. fraction)	Not established
Sodium carbonate	497-19-8	Not established	Not established
Alcohols, C6-C10 ethoxylated propoxylated	68987-81-5	Not established	Not established
Dodecyldiphenyloxide disulfonate sodium salt	119345-04-9	Not established	Not established

Engineering controls

General ventilation normally adequate

Personal protective equipment

Eye/Face protection

Wear safety glasses with side shields if splash conditions exist.

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

Information on basic physical and chemical properties

Appearance/form

Solid

Color

White powder with blue specks.

Odor

Slight organic

Odor threshold

Not established

pH

10.0-10.2 (1% solution)

Melting point/freezing point

Not established

Initial Boiling point

Not applicable

Flash point

None

Evaporation rate

Not established

Flammability

Not flammable

Upper/lower flammability or

Not applicable

Explosive limits

Vapor pressure

Not established

Vapor density

Not established

Specific gravity/density

1.03-1.05

Solubility in water

Soluble or dispersible to at least 5%.

Partition coefficient:

Not established

Auto ignition temperature

Not established

Decomposition temperature

Not established

Stability and Reactivity

Stable and non reactive under normal use and storage conditions.

VOC

< 1%

% Volatile

< 3%

Other safety Information

10. Stability and Reactivity

Reactivity

Not reactive under normal use and storage.

Chemical Stability

Stable under normal storage conditions.

Hazardous reactions

None known.

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, and oxides of sulfur.

Hazardous polymerization

Will not occur.

11. Toxicological Information

Ingredients	LC50
Sodium bicarbonate	> 5.03 mg/l 4 hours - inhalation rat
Sodium carbonate	800 mg/m ³ inhalation guinea pig, 1150 mg/m ³ inhalation rat
Alcohols, C6-C10, ethoxylated propoxylated	> 50 mg/l 4 hour- inhalation rat, derived similar substance
Dodecyldiphenyloxide disulfonate, sodium salt	Not established
Ingredients	LD50
Sodium bicarbonate	5600 mg/kg (Oral-rat)
Sodium carbonate	2800 mg/kg (Oral-rat) , > 2000 mg/kg (Dermal-rabbit)
Alcohols, C6-C10, ethoxylated propoxylated	2,745 mg/kg (Oral-rat) derived from similar substance
	≥2,000 mg/kg (dermal-rabbit) derived from similar substance
Dodecyldiphenyloxide disulfonate, sodium salt	> 2000 mg/kg (Oral-rat) no deaths
	> 2000 mg/kg (Dermal-rabbit) no deaths
Effects of acute exposure	
Eye	Causes eye irritation
Skin	Causes mild irritation.
Inhalation	Not normally a route of entry.
Ingestion	May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.
Sensitization	No data available.
Chronic effects of short and long term exposure	Prolonged exposure to skin may cause drying, defatting and irritation. Exposure of dust to the eyes may be irritating.
Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.

12. Ecological Information

Eco-toxicity	Components of this product have been identified as having potential environmental concerns.
Environmental effects	No data available.
Aquatic toxicity	
Sodium carbonate	LC50 Fish (Lepomis macrochirus): 300 mg/L (static) 96 hour EC50 Akgae (Nitzschia): 242mg/L 120 hour
Alcohols, C6-C10, ethoxylated, propoxylated	LC50 Fish (Pimephales promelas): 1-10 mg/L 96 hour EC50 Aquatic invertebrates: 1-10 mg/L 48 hour Toxic to aquatic plants, EC50 : 1-10 mg/L 120 hours
Dodecyldiphenyloxide disulfonate, sodium salt	LC50 Fish (rainbow trout) : 6.2 mg/L 96 hour LC50 Daphnea magna (water flea): 1.64 mg/L 48 hour EC50 Green Algae: 100 mg/l 21 days
Persistence and Degradability	
Alcohols, C6-C10, ethoxylated propoxylated	Moderately/partially degradable
Dodecyldiphenyloxide disulfonate, sodium salt	Not considered biodegradable, but does not mean that the material is not degradable under environmental conditions.
Bioaccumulation/accumulation	No data available.
Partition coefficient	No data available.
Mobility in environmental media	No data available.
Chemical fate information	No data available.
Other adverse effects	No data available.



13. Disposal Considerations

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	

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 SDS contains all of the information required by OSHA HCS 2012.	
TSCA	All ingredients are listed on the Toxic Substances Control Act or are exempt from listing.	
CERCLA Super Fund 40CFR117.302	Product contains a material with a Reportable Quantity (RQ): None	
SARA Title III Section 311&312	Immediate (Acute) Health Hazard Sodium carbonate Alcohols, C6-C10, ethoxylated propoxylated Dodecyldiphenyloxid disulfonate sodium salt	
SARA Title III Section 313	Ingredients subject to the reporting requirements of Section 313: None	
California Proposition 65	This product does not contain intentional ingredients known to the State of California to cause cancer, birth defects or reproductive effects. However, trace amounts of ethylene oxide(CAS#71-25-8), a suspected human carcinogen and propylene oxide (CAS#75-56-9) which is anticipated to be a carcinogen may be present.	
States Right to Know	Reportable Chemicals: Dodecyldiphenyloxide disulfonate sodium salt	
Inventory Status		
Countries	Inventory Name	On Inventory (Yes/No)*
U.S.	Chemical Inventory List	Yes
Canada	Domestic substances list	Yes
<ul style="list-style-type: none"> • A öYesö indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed. 		



16. Other Information

HMIS RATING

HMIS LEGEND

Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	

Health	1
Flammability	0
Reactivity	0
Personal Protection	B

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 16, 2014

Supersedes date

Previous issues.

Reason for update

Conform to GHS OSHA HCS 2012.

Expiration date

March 16, 2017