

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name DEO REO 40
CAS# Mixture
Product Use Carpet deodorizer and odorant
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 www.cfrcorp.com

HMIS LEGEND

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

2. Hazards Identification

Emergency Overview **Caution: Eye and skin irritant. Contains a potential mutagen.**
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 may be listed for information purposes. This is not a composition disclosure.

| Hazardous Components | CAS# | %(optional) |
|----------------------|---------|--------------|
| Ethanol | 64-17-5 | 0.1-1.0% |

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

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| 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, ammonia, hydrogen chloride. |
| Unusual Fire, Explosion hazards | None known. |

6. Accidental Release Measures

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| 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 absorbed with non reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or water ways. Contact emergency personnel or supplier for advice. Never return spill to original container for reuse |

7. Handling and Storage

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| 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

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| Exposure limits | | |
| Ingredients | OSHA PEL | ACGIH TLV |
| Ethanol | | TWA: 1000 ppm |
| 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

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|----------------------------|----------------------|
| Appearance/form | Clear liquid |
| Color | Colorless |
| Odor | Mango |
| pH | Not available |
| Boiling point | > 212° F. |
| Specific gravity | 0.96-1.008 |
| Evaporation rate | Not available |
| Vapor pressure | Not available |
| Vapor density | Not available |
| Solubility in water | Complete |
| Flash point | > 94° C. (> 200° F.) |
| VOC | < 1% |
| % Volatile | Approx. 97% |

10. Stability and Reactivity

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| 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, ammonia, hydrogen chloride. |
| Hazardous polymerization | Will not occur |

11. Toxicological Information

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| Ingredients | LC50 |
| Ethanol | 31623 ppm rat |
| Ingredients | LD50 |
| Ethanol | 3450 mg/kg mouse, 7060 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 | Non hazardous. |
| Chronic effects | Non hazardous. |
| Carcinogenicity | Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA. |
| Mutagenicity | Mutagenic effects were observed in somatic and reproductive cells of live animals exposed to high doses of ethanol. |
| Reproductive effects | Non hazardous. |
| Teratogenicity | Animal studies demonstrate that ingestion of ethanol can cause embryotoxicity, teratogenicity and fetotoxicity in the presence of maternal toxicity. |

12. Ecological Information

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| Eco-toxicity | Components of this product have been identified as having potential environmental concerns. |
| Eco-toxicity-Freshwater Fish Species data: | |
| Ethanol | 96 Hr L C50 Oncorhynchus mykiss: 12.0-16.0 ml/L static. |
| Eco-toxicity-Microtox data: | |
| Ethanol | 5 min EC50 Photobacterium phosphoreum: 35470 mg/L |
| Eco-toxicity-Water flea data: | |
| Ethanol | 48 Hr LC50 Daphnia magna: 9268 mg/L 24 Hr EC50 Daphnia magna: 10800 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

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| 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

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

15. Regulatory Information

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| 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. | |
| HMIS classification | Irritant | |
| Inventory Status | Inventory Name | On Inventory (Yes/No)* |
| Countries | | |
| U.S. | Chemical Inventory List | Yes |
| Canada | Domestic substances list | Yes |
| <ul style="list-style-type: none">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. |
| Issue date | February 16, 2011 |
| Supersedes date | May 12, 2006 |
| Reason for update | Conform to OSHA requirement |
| Expiration date | February 16, 2013 |