



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name DEO REO 30
CAS # Mixture
Product Use Odour counteractant
Manufacturer CFR Division of Tacony Corporation
3101 Wichita Court
Fort Worth, TX 76140-1710 US
Phone: 1-800-880-2913 ext.150

2. Hazards Identification

Emergency overview May cause eye and skin irritation.
Potential short term health effects
Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes May cause irritation.
Skin May cause irritation.
Inhalation May cause respiratory irritation.
Ingestion May cause stomach distress, nausea or vomiting.
Target organs Eyes. Skin.
Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Ethanol	64-17-5	0.1 - 1

Composition comments Non hazardous by WHMIS Criteria.

4. First Aid Measures

First aid procedures
Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician Symptoms may be delayed.
General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.
Extinguishing media
Suitable extinguishing media Water spray. Dry chemical. Carbon dioxide.
Unsuitable extinguishing media Not available

Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Ammonia. Hydrogen chloride.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
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, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

Exposure limits	See above
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye/Face protection	Wear safety glasses with side shields.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practices. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Clear
Colour	Colourless
Form	Liquid
Odour	Fresh
Odour threshold	Not available.
Physical state	Liquid.
pH	Not available
Freezing point	Not available.
Boiling point	> 100 °C (> 212 °F)

Pour point	Not available.
Evaporation rate	Not available
Flash point	> 37.8 °C (> 100.0 °F)
Auto-ignition temperature	Not available
Flammability Limits in Air, Upper, % by Volume	Not available.
Flammability Limits in Air, Lower, % by Volume	Not available
Heat of combustion	Not available.
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	0.996 - 1.008
Partition coefficient (n-octanol/water)	Not available
Solubility (Water)	Soluble
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong oxidising agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Ammonia. Hydrogen chloride.

11. Toxicological Information

Toxicological data

Components	Species	Test results
Ethanol (CAS 64-17-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 15800 mg/kg
<i>Inhalation</i>		
LC50	Mouse	39 mg/L, 4 Hours
	Rat	31623 ppm, 4 Hours
		20000 ppm, 10 Hours
		64.1 mg/l/4h
<i>Oral</i>		
LD50	Dog	5500 mg/kg
	Guinea pig	5600 mg/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg

Effects of acute exposure

Eye contact	May cause irritation.
Skin contact	May cause irritation.
Inhalation	May cause respiratory irritation.

Ingestion	May cause stomach distress, nausea or vomiting.
Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	See below.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethanol (CAS 64-17-5) Volume 44, Volume 96, Volume 100E
Volume 96, Volume 100E

Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.
Name of Toxicologically Synergistic Products	Not available.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicological data

Components	Species	Test results
Ethanol (CAS 64-17-5)		
Crustacea	EC50 Daphnia	11744.5 mg/L, 48 Hours
Aquatic		
Crustacea	EC50 Water flea (Daphnia magna)	7.7 - 11.2 mg/L, 48 hours
Fish	LC50 Fathead minnow (Pimephales promelas)	> 100 mg/L, 96 hours

Persistence and degradability	Not available.
Bioaccumulation/accumulation	Not available
Mobility in environmental media	Not available.
Environmental effects	Not available.
Aquatic toxicity	Not available.
Partition coefficient	
Ethanol	-0.31
Chemical fate information	Not available.

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Ethanol (CAS 64-17-5) 1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

Ethanol (CAS 64-17-5) 0.1 %

WHMIS status Not Controlled

Inventory status

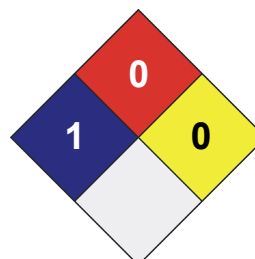
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

Dell Tech Laboratories Ltd. Phone: (519) 858-5021