

MATERIAL SAFETY DATA SHEET

Trade Name: ZAK Diesel Engine Oil Conditioner
MSDS NO. DF301
Revision Date: 10/10/2003
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: ZAK Diesel Engine Oil Conditioner
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: Zak Products, 3006 Skyway Circle South, Irving, TX 75038

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLW STEL
Mineral Oil Mixture	60-100	5 mg/m3	None Established	5 mg/m3	10 mg/m3
Petroleum Distillates Mixture	10-30	500 ppm	None Established	None Established	None Established
Alkyl Phenol proprietary	1-5	None Established	None Established	None Established	None Established

3. HAZARDS IDENTIFICATION

HMIS Classification: Health: 0 Flammability: 1 Physical Hazard: 0
NFPA Rating: Health: 1 Flammability: 1 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention.
Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Skin Contact: Wash with soap and water. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flammable Properties
Flash Point °F(°C): 275F
Flash Point Method: Not Determined
Flammable Limits in Air - Lower (%): NT
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined
Extinguishing Media: Alcohol foam.
Protection Of Fire-Fighters:
Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.
Hazardous Combustion Products: Not determined.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.
Neutralize with suitable neutralizing agent after diluting with water.
Environmental Precautions: Keep away from drains.

7. HANDLING AND STORAGE

Handling and Storage: Use ground strap.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Engineering Controls: Exhaust ventilation.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Not Determined
Respiratory Protection: Use in a well ventilated area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to light yellow liquid	pH Value:	Not Determined
Odor:	MILD HYDROCARBON	Vapor Density (Air=1):	Not Determined
Vapor Pressure:	Not Determined	Melting/Freezing Point:	Not determined.
Boiling Point (°F):	Not determined.	Bulk Density at 20°C:	Not Determined
Solubility in Water:	INSOLUBLE	Evaporation Rate:	Not Determined
Molecular Weight:	Not Determined	Specific Gravity (H2O=1):	.880 @ 15C
Viscosity:	27.3 cSt @ 40C 4.75 cSt @ 100C.	Decomposition Temperature:	Not Known
VOC Content(%):	Not determined.		

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Keep away from heat, sparks and flame.
Materials to Avoid: Contact with oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Mineral Oil Mixture	60-100	Inhalation	Rats	Not known.
Petroleum Distillates Mixture	10-30	Inhalation	Rats	Not known.
Alkyl Phenol proprietary	1-5	Inhalation	Rats	Not known.

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Mineral Oil Mixture	60-100	Not Listed	Not Listed	Not Listed
Petroleum Distillates Mixture	10-30	Not Listed	Not Listed	Not Listed
Alkyl Phenol proprietary	1-5	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.

Waste Management: Not determined.

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name: ORM-D CONSUMER COMMODITY
Hazard Class: ORM-D

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UN/NA Number: Not Applicable

DOT Packing Group: Not Applicable

IMDG:

Proper Shipping Name: Not determined.

Hazard Class: Not determined.

Hazard Subclass: Not determined.

UN No.: Not determined.

Packing Group: Not determined.

Marine Pollutant: Not determined.

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Mineral Oil Mixture	60-100	Not Listed	Not Listed	NA	NA
Petroleum Distillates Mixture	10-30	Not Listed	Not Listed	NA	NA
Alkyl Phenol proprietary	1-5	Not Listed	Not Listed	NA	NA

SARA 311/312 Hazard Categories: Not Determined.

State Regulations:

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Mineral Oil Mixture	60-100	Not Listed	Not Listed	Not Listed	Not Listed
Petroleum Distillates Mixture	10-30	Not Listed	Not Listed	Not Listed	Not Listed
Alkyl Phenol proprietary	1-5	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

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