

MATERIAL SAFETY DATA SHEET

Trade Name: Radiator Treatment and Water Pump Lubricant
MSDS NO. 4618
Revision Date: 03/03/2008
Date Printed 12/30/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Radiator Treatment and Water Pump Lubricant
Chemical Family: Water Soluble Oil
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Solvent refined, hydrotreated mineral oil distillate NA	20-25	Not Listed	Not Listed	Not Listed
Sodium Sulfonate-Soap Emulsifier base NA	2-5	Not Listed	Not Listed	Not Listed
Glycerol Trioleate derived stabilizer NA	1-3	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Solvent refined, hydrotreated mineral oil distillate NA	20-25	Not Listed	Not Listed	Not Listed
Sodium Sulfonate-Soap Emulsifier base NA	2-5	Not Listed	Not Listed	Not Listed
Glycerol Trioleate derived stabilizer NA	1-3	Not Listed	Not Listed	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Solvent refined, hydrotreated mineral oil distillate NA	Not Listed	Not Listed	Not Listed
Sodium Sulfonate-Soap Emulsifier base NA	Not Listed	Not Listed	Not Listed
Glycerol Trioleate derived stabilizer NA	Not Listed	Not Listed	Not Listed

3. HAZARDS IDENTIFICATION

Emergency Overview:

May cause severe eye irritation. Inhalation of vapor (generated at high temperatures only) or oil mist from this product may result in mild irritation of the upper respiratory tract. Soluble mineral oils are generally considered no more than slightly toxic if swallowed. Preexisting skin and respiratory disorders may be aggravated by exposure to this product.

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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: Do Not Induce Vomiting. This material is practically non-toxic if ingested in small amounts (tablespoonful). Swallowing amounts larger may cause injury. Seek 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: Remove contaminated clothing and shoes, and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): >350 F
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): Not Determined
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined
Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical. DO NOT use straight water streams. Product will float and be reignited on surface of water.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Water fog or spray may be used to cool exposed equipment and containers. Do not spray water directly on fire - product will float and could be reignited on surface of water. Material will not burn unless preheated.
Hazardous Combustion Products: Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulate and gases will evolve when this material undergoes pyrolysis or combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion.
Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Avoid breathing vapor. When airborne exposure limits are exceeded use NIOSH approved respiratory protection equipment appropriate to the material and/or its components.
Spill Procedures: Contain any liquid from leaking containers. Keep away from heat sparks and flames. Wear protective equipment specified.
Action to be taken if material is released or spilled: Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials. Wear proper protective equipment as specified in the protective equipment section. Wash walking surfaces with detergent and water to reduce slipping hazard.
Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. HANDLING AND STORAGE

Handling and Storage: Keep container closed when not in use. Use only in a well ventilated area. Store in a cool, dry place. Keep away from heat and open flame. Keep away from food and feed products. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eyewash stations. Showers. Use local exhaust.
Eyes: Safety glasses (with side shields)
Skin Protection: Use chemical resistant gloves for prolonged skin contact. Nitrile coated apron or clothing.
Respiratory Protection: Wear a NIOSH approved respirator appropriate for airborne exposure at the point of use. Do not breath mist.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow to amber color liquid.
 Odor: SLIGHT HYDROCARBON
 pH Value: Not Determined
 Vapor Pressure: Not Determined
 Vapor Density (Air=1): Not Determined
 Boiling Point (°F): >212 F
 Melting/Freezing Point: Not Determined.
 Solubility in Water: SOLUBLE
 Bulk Density at 20°C: 7.6 lb/gal
 Molecular Weight: Mixture
 Specific Gravity (H20=1): .91 @ 60 F
 Viscosity: Not Determined.
 Evaporation Rate: Not Determined
 VOC Content(%): Not determined.
 Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
 Conditions to Avoid: Excessive heat.
 Materials to Avoid: Heat, sparks, flames and other sources of ignition. Contact with oxidizing agents.
 Hazardous Decomposition Products: Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulate and gases will evolve when this material undergoes pyrolysis or combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion.
 Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Solvent refined, hydrotreated mineral oil distillate NA	NA	NA	Not known.
Sodium Sulfonate-Soap Emulsifier base NA	NA	NA	Not known.
Glycerol Trioleate derived stabilizer NA	NA	NA	Not Known

Carcinogenicity:

Component	IARC	NTP	OSHA
Solvent refined, hydrotreated mineral oil distillate NA	Not Known	Not Known	Not Known
Sodium Sulfonate-Soap Emulsifier base NA	Not Known	Not Known	Not Known
Glycerol Trioleate derived stabilizer NA	Not Known	Not Known	Not Listed

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Comments: The International agency for research on cancer has determined there is sufficient evidence for the carcinogenicity in experimental animals of used motor (crankcase) oil. Handling procedures and safety precautions in the MSDS should be followed to minimize employee's exposure to the product if used as a lubricating oil in a gasoline internal combustion engine.

12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: This product is classified as an oil under section 311 of the Clean Water Act. Spills entering (A) surface waters of (B) any water courses or sewers entering/leading to surface waters that cause a sheen must be reported to the nearest Local Environmental Protection Agency Office.
Waste Management: Not determined.
Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:
Proper Shipping Name: Not Regulated
Hazard Class: Not Applicable
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:
Proper Shipping Name: Not Regulated
Hazard Class: Not determined.
Hazard Subclass: Not Applicable
UN No.: Not Applicable
Packing Group: Not Applicable
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ
Solvent refined, hydrotreated mineral oil distillate NA	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Sulfonate-Soap Emulsifier base NA	Not Listed	Not Listed	Not Listed	Not Listed
Glycerol Trioleate derived stabilizer NA	Not Listed	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Categories: Not Determined.

State Regulations:

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Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Solvent refined, hydrotreated mineral oil distillate NA	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Sulfonate-Soap Emulsifier base NA	Not Listed	Not Listed	Not Listed	Not Listed
Glycerol Trioleate derived stabilizer NA	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: One or more components of this product is not listed on the TSCA Inventory.
Canadian Inventory: One or more components of this product is not listed on the Canadian DSL or NDSL Inventory.

Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

16. OTHER INFORMATION

General Notes:
Disclaimer: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.