

MATERIAL SAFETY DATA SHEET

Trade Name: Purepro Engine Flush 4/1 gal
MSDS NO. MFX-128
Revision Date:
Date Printed 07/13/2009

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Purepro Engine Flush 4/1 gal
Chemical Family: PETROLEUM HYDROCARBON OIL
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300
Supplier: Filpac, Midvale, UT, 84047

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Lubricating Oil 64742-52-5	92-99	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	1-10	Not Listed	Not Listed	50 ppm

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Lubricating Oil 64742-52-5	92-99	2000 mg/m ³ 500 ppm	1600 mg/m ³ 400 ppm	Not Listed
Glycol Ether EB 111-76-2	1-10	Not Listed	Not Listed	120 mg/m ³ 25 ppm

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Lubricating Oil 64742-52-5	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	20 ppm	Not Listed	Not Listed

3. HAZARDS IDENTIFICATION

Emergency Overview: Harmful or fatal if liquid is aspirated into lungs. Harmful or fatal if swallowed. This material is an eye and skin irritant. Keep away from heat, sparks and flame.

HMIS Classification: Health: *2 Flammability: 2 Physical Hazard: 0
NFPA Rating: Health: 2 Flammability: 2 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: DO NOT INDUCE VOMITING. Give nothing by mouth. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration. Pulmonary aspiration hazard if swallowed and/oil vomiting occurs - can enter lungs and cause damage.

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. Remove contaminated clothing and shoes, and launder before reuse. If irritation persists or signs of toxicity occur, seek medical attention. If product is injected into or under the skin, or into any part of the body, the individual should be evaluated immediately by a physician as a surgical emergency.

5. FIRE FIGHTING MEASURES

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Flammable Properties

Flash Point °F(°C): >250 F
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): NT
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): 600 F estimated
Extinguishing Media: Foam. Water mist Dry chemical. Carbon dioxide.
Protection Of Fire-Fighters:
Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.
Hazardous Combustion Products: Not determined.
Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Contain any liquid from leaking containers. Keep away from heat sparks and flames. Ventilate spill area. Soak up material with absorbent and place in chemical waste container.
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. Increase area ventilation. Remove sources of ignition. Wear proper protective equipment as specified in the protective equipment section.
Environmental Precautions: Keep away from drains.

7. HANDLING AND STORAGE

Handling and Storage: Use ground strap. Keep container closed when not in use. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Showers. Eyewash stations. Use in a well ventilated area.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Use chemical resistant gloves for prolonged skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.
Respiratory Protection: Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded..... Or over exposure is likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to light yellow liquid
Odor: MILD PETROLEUM
pH Value: Not Determined
Vapor Pressure: Not Determined
Vapor Density (Air=1): Not Determined
Boiling Point (°F): Not determined.
Melting/Freezing Point: Not determined.
Solubility in Water: Not Determined
Bulk Density at 20°C: Not Determined
Molecular Weight: Not Determined
Specific Gravity (H20=1): .868
Viscosity: Not determined.
Evaporation Rate: Not Determined
VOC Content(%): Not determined.
Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

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10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Lubricating Oil 64742-52-5	NA	NA	Not known.
Glycol Ether EB 111-76-2	Inhalation	Rats	LC50 450 ppm/4H

Carcinogenicity:

Component	IARC	NTP	OSHA
Lubricating Oil 64742-52-5	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.
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 Regulated
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

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

15. REGULATORY INFORMATION

US Federal Regulations:

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Component	SARA 313	SARA 302	TPQ	RQ
Lubricating Oil 64742-52-5	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	Not Listed	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Categories: Not Determined.

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Lubricating Oil 64742-52-5	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	Not Listed	Not Listed	Not Listed	Not Listed

Component	New Jersey Right-to-Know List:
Glycol Ether EB 111-76-2	Substance no. 0275

U.S. TSCA: The components of this product are listed on the TSCA Inventory.
Canadian Inventory: The components of this product are 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 HAVE BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE. TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEF THEY ARE ACCURATE AND RELIABLE AS OF THE DATE ISSUED. THE COMPANY DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY OR RELIABILITY, AND SHALL NOT BE LIABLE FOR ANY DAMAGE ARISING OUT OF THE USE THEREOF. IT IS THE USER'S RESPONSIBILITY TO SATISFY THAT THE INFORMATION IS SUITABLE AND COMPLETE FOR IT'S PARTICULAR USE.