

MATERIAL SAFETY DATA SHEET

Trade Name: Heartland Engine Treatment with PTFE
MSDS NO. 61032
Revision Date: 05/02/2006
Date Printed 05/02/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Heartland Engine Treatment with PTFE
Chemical Family: PETROLEUM HYDROCARBON OIL
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: Heartland MFG. Co., PO Box 1520, Wheaton, IL 60189

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLW STEL
Lubricating Oil 64742-52-5	7-11	Not known	Mist 5 mg/m3	TLV Mist 5 mg/m3 8 HR.	Not Known
Trade Secret : Calpar 2500	85-89	None Established (5 mg/m3 oil mist)	None Established	None Established	None Established
Trade Secret : Hitec 511	<1				
PTFE mixture Mixture	0.5-1.3				
Trade Secret : Lubrizol 6662A	<1				

3. HAZARDS IDENTIFICATION

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

HMIS Classification: Health: 2* Flammability: 2 Reactivity: 0
NFPA Rating: Health: 3 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: Remove contaminated clothing and shoes, and launder before reuse. Wash with soap and water. 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

Flammable Properties

Flash Point °F(°C): >250 F
Flash Point Method: COC
Flammable Limits in Air - Lower (%): Not Determined
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): 600 F Estimated
Extinguishing Media: Carbon dioxide. Dry chemical. Water. Foam.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Forms peroxides of unknown stability classified as combustible.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide. . Asphyxiants. Fumes and Smoke. Aldehydes. Forms peroxides of unknown stability.

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Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Do not ingest.
Spill Procedures: Contain any liquid from leaking containers. Keep away from heat sparks and flames. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Increase area ventilation. Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials.
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. Avoid contact with skin and eyes. Use only in a well ventilated area. Keep away from food and smoking materials. Wash hands before eating and smoking. Keep away from heat and open flame. Do Not Swallow.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Showers. Eyewash stations. Use local exhaust.
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): 9
Boiling Point (°F): >300 F
Melting/Freezing Point: Not determined.
Solubility in Water: <15%
Bulk Density at 20°C: Not Determined
Molecular Weight: Mixture
Specific Gravity (H2O=1): .86 @ 60 F
Viscosity: 60 SUS @ 100 F
Evaporation Rate: Not Determined
VOC Content(%): Not determined.
Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE. Can form peroxides of unknown stability.
Conditions to Avoid: Keep away from heat, sparks and flame.
Materials to Avoid: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide. and other asphxiants.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Lubricating Oil 64742-52-5	7-11	NA	NA	Not known.
Trade Secret : Calpar 2500	85-89	Oral	Rats	LD50 >5000 mg/kg
Trade Secret : Hitec 511	<1	Inhalation	Rats	Not known.
PTFE mixture Mixture	0.5-1.3	Inhalation	Rats	Not known.
Trade Secret : Lubrizol 6662A	<1	Inhalation	Rats	Not known.

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Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Lubricating Oil 64742-52-5	7-11	Not Listed	Not Listed	Not Listed
Trade Secret : Calpar 2500	85-89	Not Listed	Not Listed	Not Listed
Trade Secret : Hitec 511	<1	Not Listed	Not Listed	Not Listed
PTFE mixture Mixture	0.5-1.3	Not Listed	Not Listed	Not Listed
Trade Secret : Lubrizol 6662A	<1	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

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: 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 Regulated
UN No.: Not Regulated
Packing Group: Not Regulated
Marine Pollutant: No.

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Lubricating Oil 64742-52-5	7-11	Not Listed	Not Listed	NA	NA
Trade Secret : Calpar 2500	85-89	Not Listed	Not Listed	NA	NA

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Trade Secret : Hitec 511	<1	Toluene 1.6%	No EHS >1%
PTFE mixture Mixture	0.5-1.3		
Trade Secret : Lubrizol 6662A	<1		

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
Lubricating Oil 64742-52-5	7-11	Not Listed	Not Listed	Not Listed	Not Listed
Trade Secret : Calpar 2500	85-89	Not Listed	Not Listed	Not Listed	Not Listed
Trade Secret : Hitec 511	<1	Components listed (benzene, toluene)	Not Listed	Not Listed	Not Listed
PTFE mixture Mixture	0.5-1.3	Not Listed	Not Listed	Not Listed	Not Listed
Trade Secret : Lubrizol 6662A	<1	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.

Disclaimer:

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 ITS PARTICULAR USE.