Trade Name: Heartland 4X Engine Treatment

 MSDS NO.
 61034

 Revision Date:
 05/02/2006

 Date Printed
 05/02/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Heartland 4X Engine Treatment
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 OSHA PEL ACGIH TLV ACGIH TLW** TWA **Ceiling Limits** TWA STEL Lubricating Oil 97-99 Not known Mist 5 mg/m3 TLV Mist 5 mg/m3 8 Not Known 64742-52-5 HR. Trade Secret: <1 Hitec 511 PTFE mixture 0.5-1.3 Mixture

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: 0NFPA 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 (%):

Flammable Limits in Air - Upper (%):

Autoignition Temperature °F(°C):

Not Determined
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.

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.

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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 Keep container closed when not in use. Avoid contact with skin and eyes. Use only in a well ventilated area. Keep away from food Storage: and smoking materials. Wash hands before eating and smoking. Keep away from heat and open flame. Do Not Swallow.

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.

PHYSICAL AND CHEMICAL PROPERTIES 9.

Amber milky liquid Appearance: MILD PETROLEUM Odor: pH Value: Not Determined Vapor Pressure: Not Determined

Vapor Density (Air=1):

>300 F **Boiling Point (°F):** Melting/Freezing Point: Not determined. Solubility in Water: <15% Bulk Density at 20°C: Not Determined Molecular Weight: Mixture Specific Gravity (H20=1): .86 @ 60 F Viscosity: 60 SUS @ 100 F **Evaporation Rate:** Not Determined

VOC Content(%): Not determined. **Decomposition Temperature:** Not Known

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.

Carbon monoxide. and other asphxiants. **Hazardous Decomposition Products:**

Hazardous Polymerization: WILL NOT OCCUR

TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Lubricating Oil 64742-52-5	97-99	NA	NA	Not known.
Trade Secret : Hitec 511	<1	Inhalation	Rats	Not known.
PTFE mixture	0.5-1.3	Inhalation	Rats	Not known.

Carcinogenicity:

Mixture

Ingredient/CAS No. wt. % **IARC** NTP **OSHA**

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> Lubricating Oil 97-99 Not Listed Not Listed Not Listed

64742-52-5

Trade Secret: Not Listed Not Listed Not Listed <1

Hitec 511

PTFE mixture 0.5-1.3 Not Listed Not Listed Not Listed

Mixture

ECOLOGICAL INFORMATION 12.

Ecological testing has not been conducted on this product.

DISPOSAL CONSIDERATION 13.

Waste Classification: Not determined.

Waste Management: Not determined.

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

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 97-99 Not Listed Not Listed NA NA

64742-52-5 Trade Secret:

<1 Toluene 1.6% No EHS >1%

Hitec 511 PTFE mixture 0.5-1.3

Mixture

Not Determined. SARA 311/312 Hazard Catagories:

State Regulations:

Ingredient/CAS No. wt. % California Prop. 65 California Prop. 65 California Prop. 65 California Prop. 65

Cancer list Developmental Toxicity

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Lubricating Oil 97-99 Not Listed Not Listed Not Listed Not Listed

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Trade Secret: <1 Components listed Not Listed Not Listed Not Listed

Hitec 511 (benzene, toluene)

PTFE mixture 0.5-1.3 Not Listed Not Listed Not Listed

Mixture

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 IT'S PARTICULAR USE.