

# MATERIAL SAFETY DATA SHEET

Trade Name: Heartland Fuel Injection Cleaner  
MSDS NO. 61052  
Revision Date:  
Date Printed 05/10/2006

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Heartland Fuel Injection Cleaner  
Chemical Family: HYDROCARBON MIXTURE  
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 TLV STEL
Trade Secret : Hitec 4139	90 to 100	10 ppm (naphthalene)		10 ppm (naphthalene)	15 ppm (naphthalene)

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Keep away from heat, sparks and flame. Exposure to vapors can cause central nervous system depression, drowsiness, weakness, headache, dizziness, and nausea. Causes eye and skin irritation. Caution: Combustible. Harmful if inhaled. Harmful if swallowed. Avoid contact with skin and eyes.

**HMIS Classification:** Health: 2\* Flammability: 2 Reactivity: 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. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - 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.

## 5. FIRE FIGHTING MEASURES

### Flammable Properties

**Flash Point °F(°C):** 145 F (63 C)  
**Flash Point Method:** PMCC  
**Flammable Limits in Air - Lower (%):** Not Determined  
**Flammable Limits in Air - Upper (%):** Not Determined  
**Autoignition Temperature °F(°C):** Not Determined  
**Extinguishing Media:** Carbon dioxide. Dry chemical. Foam. Use water spray to keep containers cool that are exposed to heat or flames.

### 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:** Wear protective equipment specified. Only trained and qualified personnel should handle any spilled or leaked product. Keep away from heat sparks and flames. Ventilate spill area. Soak up material with absorbent and place in chemical waste container.  
Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Increase area ventilation. Persons not trained should evacuate area. Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations. Use non-sparking tools and equipment.  
**Environmental Precautions:** Keep away from drains.

## 7. HANDLING AND STORAGE

**Handling and Storage:** Use ground strap. Keep container closed when not in use. Use only in a well ventilated area. Keep away from heat and open flame.

# MATERIAL SAFETY DATA SHEET

Trade Name: Heartland Fuel Injection Cleaner  
MSDS NO. 61052  
Revision Date:  
Date Printed 05/10/2006

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.  
**Eyes:** Wear safety glasses or goggles to protect against exposure.  
**Skin Protection:** Avoid skin contact. Wear protective clothing and gloves.  
**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:** Amber Liquid  
**Odor:** AROMATIC  
**pH Value:** Not Determined  
**Vapor Pressure:** 1 mm Hg @ 20 C  
**Vapor Density (Air=1):** Not Determined  
**Boiling Point (°F):** Not determined.  
**Melting/Freezing Point:** Not determined.  
**Solubility in Water:** INSOLUBLE  
**Bulk Density at 20°C:** Not Determined  
**Molecular Weight:** Not Determined  
**Specific Gravity (H2O=1):** 0.9572 @ 15.6/15.6C  
**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:** Keep away from heat, sparks and flame.  
**Materials to Avoid:** Strong oxidizing agents. Strong acids.  
**Hazardous Decomposition Products:** Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Metal oxide fumes  
**Hazardous Polymerization:** WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

### Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Trade Secret : Hitec 4139	90 to 100	Inhalation	Rats	Not known.

### Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Trade Secret : Hitec 4139	90 to 100	Not Listed	Classified 1 (Clear Evidence) Naphthalene	Not Listed

## 12. ECOLOGICAL INFORMATION 13. DISPOSAL CONSIDERATION

**Waste Classification:** Not determined.

**Waste Management:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines are found in 40 CFR 261.3. Additionally, state and local rules may apply.

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

## 14. TRANSPORTATION INFORMATION

U.S. DOT:

# MATERIAL SAFETY DATA SHEET

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**MSDS NO.** 61052  
**Revision Date:**  
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<b>Proper Shipping Name:</b>	CONSUMER COMMODITY
<b>Hazard Class:</b>	ORM-D
<b>UN/NA Number:</b>	Not Applicable
<b>DOT Packing Group:</b>	Not Applicable
<b>IMDG:</b>	
<b>Proper Shipping Name:</b>	Combustible Liquid, nos (2-ethylhexyl nitrate)
<b>Hazard Class:</b>	3
<b>Hazard Subclass:</b>	Not determined.
<b>UN No.:</b>	NA 1993
<b>Packing Group:</b>	III
<b>Marine Pollutant:</b>	Yes

## 15. REGULATORY INFORMATION

**US Federal Regulations:**

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Trade Secret : Hitec 4139	90 to 100	naphthalene 0.1-1.0%; 1,2,4-trimethylbenzene 1-5%	NA		

**SARA 311/312 Hazard Categories:** Acute, chronic, reactive, fire

**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
Trade Secret : Hitec 4139	90 to 100	Contains naphthalene, benzene	Not Listed	toluene, benzene	Not Listed

**U.S. TSCA:**

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

Contains <0.1-1.0% naphthalene that is listed by IARC as Suspect Carcinogen NTP Carcinogen

## 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 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.

# MATERIAL SAFETY DATA SHEET

Trade Name: Heartland Diesel Oil Conditioner  
MSDS NO. 61051  
Revision Date:  
Date Printed 04/27/2006

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Heartland Diesel Oil Conditioner  
Chemical Family: HYDROCARBON MIXTURE  
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 TLV STEL
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	90-97	Not known	Mist 5 mg/m3	TLV Mist 5 mg/m3 8 HR.	Not Known
Petroleum mixture Mixture	4-6				

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Petroleum Distillates Mixture	4-6	500 ppm	None Established	None Established	None Established

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Toxic to Aquatic Organisms. May cause long-term adverse effects in aquatic environment.

**HMIS Classification:** Health: 0 Flammability: 1 Reactivity: 0  
**NFPA Rating:** HEALTH 0, FLAMMABILITY 1, REACTIVITY 0

## 4. FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Seek medical attention if irritation persists.  
**Ingestion:** If victim is conscious and alert, give 1-2 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.  
**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):** 275 F (Lowest component)  
**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. Water fog and foam may cause frothing and spattering.

### Protection Of Fire-Fighters:

**Special Fire-Fighting Procedures:** Wear approved positive-pressure self-contained breathing apparatus and protective clothing. This product is slightly combustible. If heated above its flash point will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source. Mists or sprays may be flammable below oil's normal flash point. Keep away from extreme heat or open flame.

**Hazardous Combustion Products:** Carbon Dioxide. Fumes and Smoke.

**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. Avoid all sources of ignition; heat, sparks and open flames. Ventilate spill area. Soak up material with absorbent and place in chemical waste container.

# MATERIAL SAFETY DATA SHEET

Trade Name: Heartland Diesel Oil Conditioner  
 MSDS NO. 61051  
 Revision Date:  
 Date Printed 04/27/2006

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section.

**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. Keep away from heat and open flame. Avoid extreme temperatures. Wash thoroughly with soap and water after handling. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if the product gets inside. Then, wash thoroughly and put on clean clothing.

## 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.  
**Respiratory Protection:** Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colorless to light yellow liquid  
**Odor:** SLIGHT PETROLEUM  
**pH Value:** Neutral  
**Vapor Pressure:** Not Determined  
**Vapor Density (Air=1):** Not Determined  
**Boiling Point (°F):** Not Determined  
**Melting/Freezing Point:** Not determined.  
**Solubility in Water:** NEGLIGIBLE  
**Bulk Density at 20°C:** Not Determined  
**Molecular Weight:** Mixture  
**Specific Gravity (H2O=1):** Not Determined  
**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:** Avoid any source of ignition.  
**Materials to Avoid:** Strong oxidizers.  
**Hazardous Decomposition Products:** Carbon dioxide. and other asphxiants.  
**Hazardous Polymerization:** WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

**Toxicological Data:**

Ingredient/CAS No.	wt. %	Route	Species	Dose
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	90-97	NA	NA	Not known.
Petroleum mixture Mixture	4-6	Inhalation	Rats	Not known.

Ingredient/CAS No.	wt. %	Route	Species	Dose
Petroleum Distillates Mixture	4-6	Inhalation	Rats	Not known.

**Carcinogenicity:**

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Heavy Hydrotreated Naphthenic Distillates (petroleum)	90-97	Not Listed	Not Listed	Not Listed

# MATERIAL SAFETY DATA SHEET

**Trade Name:** Heartland Diesel Oil Conditioner  
**MSDS NO.** 61051  
**Revision Date:**  
**Date Printed** 04/27/2006

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
64742-52-5				
Petroleum mixture Mixture	4-6	Not Listed	Not Listed	Not Listed

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Petroleum Distillates Mixture	4-6	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

## 13. DISPOSAL CONSIDERATION

**Waste Classification:** This product is not a RCRA hazardous waste if uncontaminated. If "used" RCRA criteria must be determined.

**Waste Management:** Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts.

Disposal should be made in accordance with federal, state and local regulations. Incineration recommended in approved incinerator according to 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 Applicable  
**Hazard Subclass:** Not Applicable  
**UN No.:** Not Applicable  
**Packing Group:** Not Applicable  
**Marine Pollutant:** No

## 15. REGULATORY INFORMATION

**US Federal Regulations:**

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	90-97	Not Listed	Not Listed	NA	NA
Petroleum mixture Mixture	4-6				

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Petroleum Distillates Mixture	4-6	Not Listed	Not Listed	NA	NA

**SARA 311/312 Hazard Categories:** Acute, Fire

# MATERIAL SAFETY DATA SHEET

**Trade Name:** Heartland Diesel Oil Conditioner  
**MSDS NO.** 61051  
**Revision Date:**  
**Date Printed** 04/27/2006

**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
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	90-97	Not Listed	Not Listed	Not Listed	Not Listed
Petroleum mixture Mixture	4-6	Not Listed	Not Listed	Not Listed	Not Listed

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Petroleum Distillates Mixture	4-6	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:**

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