# MATERIAL SAFETY DATA SHEET

Trade Name:	Heartland Extreme Clean Engine Flush
MSDS NO.	61216
Revision Date:	12/27/2002

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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



Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLW STEL
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	80-90	Not known	Mist 5 mg/m3	TLV Mist 5 mg/m3 8 HR.	Not Known
Solvent Refined Light Paraffinic Distillate 64741-89-5	10-20	5 mg/m3	None Established	5 mg/m3	None Established
Glycol Ether EB 111-76-2	1-5	50 ppm	Not Determined	20 ppm	Not Determined

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** 

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

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 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

Flammable Properties	
Flash Point °F(°C):	>250 F
Flash Point Method:	COC
Flammable Limits in Air - Lowe	
Flammable Limits in Air - Uppe	
Autoignition Temperature °F(°	C): 600 F Estimated
Extinguishing Media:	Foam. Water. Dry chemical. Carbon dioxide. Use water spray to keep containers cool that are exposed to heat or flames.
Protection Of Fire-Fighters:	
Special Fire-Fighting Procedur	res: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Forms peroxides of unknown stability classified as combustible.
Hazardous Combustion Produ	cts: Fumes and Smoke. Carbon Monoxide. Aldehydes. Carbon Dioxide Asphyxiants. Forms peroxides of unknown stability.
Aerosol Comments:	Not Applicable
	6. ACCIDENTAL RELEASE MEASURES
Personal Precautions: Spill Procedures:	Wear appropriate protective clothing and equipment to prevent skin and eye contact. Do not ingest. 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.

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<b>Environmental Precauti</b>	ons: Do not allow to enter sanitary drains, sewer of	or surface and subsur	rface waters.

			HANDLING AND STORAGI		
Handling and Storage:	and open flame. Ke	ep away from food	. Avoid contact with skin and eyes. L and smoking materials. Wash hands	s before eating and smol	
		8. EXPOSURE	CONTROLS/PERSONAL P	ROTECTION	
Engineering Contr Eyes: Skin Protection:	rols:	Wear safety glasse Use chemical resis	stations. Use local exhaust. es or goggles to protect against expo tant gloves for prolonged skin conta ating, drinking, smoking and when le	ct. Wash hands and oth	er exposed areas with mild soa
Respiratory Protect	ction:	Use in a well ventil is likely.	ated area. Use approved NIOSH res	spiratory protection if TL	/ exceeded Or over exposur
		9. PHYSI	CAL AND CHEMICAL PROP	PERTIES	
Appearance:		to light yellow liquid			
Odor:	MILD PE Not Deter	TROLEUM	pH Value:	Not Determined >5	
/apor Pressure: Boiling Point (°F):		mined	Vapor Density (Air=1): Melting/Freezing Point:	>5 Not determined.	
Solubility in Water			Bulk Density at 20°C:	Not Determined.	
Aolecular Weight:			Evaporation Rate:	Not Determined	
/iscosity:	190 SUS	@ 100 F	Specific Gravity (H20=1):	.9 @ 60 F	
/OC Content(%):	Not deter	mined.	Decomposition Temperature:	Not Known	
		10.	STABILITY AND REACTIVI	ТҮ	
Chemical Stability			form peroxides of unknown stability.		
Conditions to Avo			m heat,sparks and flame.		
laterials to Avoid		Strong oxidizin			
lazardous Decom	position Products:		ide. and other asphxiants.		
Invendous Delum		WILL NOT OC	LUK		
lazardous Polyme	erization:			ΓΙΟΝ	
Hazardous Polyme			OXICOLOGICAL INFORMAT	ΓΙΟΝ	
-	a:		OXICOLOGICAL INFORMAT	ΓΙΟΝ Species	Dose
Foxicological Data Ingredient Heavy Hydrotrea Distillates (j	a: //CAS No. ated Naphthenic petroleum)	11. T			Dose Not known.
Foxicological Data Ingredient Heavy Hydrotrea Distillates ( 64742 Solvent Refined Distil	a: //CAS No. ated Naphthenic petroleum) -52-5 Light Paraffinic llate	11. To	Route	Species	
Foxicological Data Ingredient Heavy Hydrotrea Distillates ( 64742 Solvent Refined	a: //CAS No. ated Naphthenic petroleum) -52-5 Light Paraffinic llate -89-5 ther EB	<b>11. T</b> wt. % 80-90	Route NA	<b>Species</b> NA	Not known.
Foxicological Data Ingredient Heavy Hydrotrea Distillates ( 64742 Solvent Refined Distil 64741 Glycol E	a: //CAS No. ated Naphthenic petroleum) -52-5 Light Paraffinic llate -89-5 ther EB	<b>11.</b> Te wt. % 80-90 10-20	<b>Route</b> NA Oral	<b>Species</b> NA Rats	Not known. LD50 >15 gm/kg
Foxicological Data Ingredient Heavy Hydrotrea Distillates (j 64742 Solvent Refined Distil 64741 Glycol E 111-7	a: Ated Naphthenic petroleum) -52-5 Light Paraffinic late -89-5 ther EB 76-2	<b>11.</b> Te wt. % 80-90 10-20	<b>Route</b> NA Oral	<b>Species</b> NA Rats	Not known. LD50 >15 gm/kg
Foxicological Data Ingredient Heavy Hydrotrea Distillates ( 64742 Solvent Refined Distil 64741 Glycol E 111-5 Carcinogenicity: Ingredient Heavy Hydrotrea Distillates (	a: Arc/CAS No. Ated Naphthenic petroleum) -52-5 Light Paraffinic late -89-5 ther EB 76-2 Arc/CAS No. Ated Naphthenic petroleum)	<b>11. T</b> <b>wt. %</b> 80-90 10-20 1-5	Route NA Oral Inhalation	<b>Species</b> NA Rats Rats	Not known. LD50 >15 gm/kg LC50 450 ppm/4H
Foxicological Data Ingredient Heavy Hydrotrea Distillates ( 64742 Solvent Refined Distil 64741 Glycol E 111-5 Carcinogenicity: Ingredient Heavy Hydrotrea	a: A/CAS No. Ated Naphthenic petroleum) -52-5 Light Paraffinic late -89-5 ther EB 76-2 A/CAS No. Ated Naphthenic petroleum) -52-5 Light Paraffinic late	11. T wt. % 80-90 10-20 1-5 wt. %	Route NA Oral Inhalation	Species NA Rats Rats NTP	Not known. LD50 >15 gm/kg LC50 450 ppm/4H OSHA

## 12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

# 13. DISPOSAL CONSIDERATION

Trade Name:	Heartland Extreme	Clean Engine Flush	MSDS NO.	61216

### Waste Classification: Not determined.

Waste Management: Not determined.

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

## 14. TRANSPORTATION INFORMATION

	15. REGULATORY INFORMATION
Marine Pollutant:	No.
Packing Group:	Not Regulated
UN No.:	Not Regulated
Hazard Subclass:	Not Regulated
Hazard Class:	Not Regulated
Proper Shipping Name:	Not Regulated
IMDG:	
DOT Packing Group:	Not Regulated
UN/NA Number:	Not Regulated
Hazard Class:	Not Regulated
Proper Shipping Name:	Not Regulated
U.S. DOT:	

#### **US Federal Regulations:**

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	80-90	Not Listed	Not Listed	NA	NA
Solvent Refined Light Paraffinic Distillate	10-20	Not Listed	Not Listed	NA	NA
64741-89-5 Glycol Ether EB 111-76-2	1-5	Not Listed	Not Listed	NA	NA

#### SARA 311/312 Hazard Catagories: 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
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	80-90	Not Listed	Not Listed	Not Listed	Not Listed
Solvent Refined Light Paraffinic Distillate 64741-89-5	10-20	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	1-5	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: Disclaimer:

**S:** 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

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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.