

MATERIAL SAFETY DATA SHEET

Trade Name: Heartland Power Steering Flush
MSDS NO. 71126
Revision Date:
Date Printed 09/26/2003

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Heartland Power Steering Flush
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
Solvent Refined Light Paraffinic Distillate 64741-89-5	80-90	5 mg/m3	None Established	5 mg/m3	None Established
Glycol Ether EB 111-76-2	10-20	50 ppm	Not Determined	20 ppm	Not Determined

3. HAZARDS IDENTIFICATION

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: If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention.

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: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): Not Determined
Flash Point Method: Not Determined
Flammable Limits in Air - Lower (%): NT
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined
Extinguishing Media: Alcohol foam.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.
Hazardous Combustion Products: Not determined.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

Spill Procedures: Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.
Neutralize with suitable neutralizing agent after diluting with water.

Environmental Precautions: Keep away from drains.

7. HANDLING AND STORAGE

Handling and Storage: Use ground strap.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation.

Eyes: Wear safety glasses or goggles to protect against exposure.

Skin Protection: Not Determined

Respiratory Protection: Use in a well ventilated area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid

Odor: Not Determined

Vapor Pressure: Not Determined

Boiling Point (°F): Not determined.

Solubility in Water: Not Determined

Molecular Weight: Not Determined

Viscosity: Not determined.

VOC Content(%): Not determined.

pH Value: Not Determined

Vapor Density (Air=1): Not Determined

Melting/Freezing Point: Not determined.

Bulk Density at 20°C: Not Determined

Evaporation Rate: Not Determined

Specific Gravity (H2O=1): .868

Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Trade Name: Heartland Power Steering Flush **MSDS NO.** 71126
Chemical Stability: STABLE.
Conditions to Avoid: Keep away from any contact with water.
Materials to Avoid: Contact with oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide.
Hazardous Polymerization: MAY OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Solvent Refined Light Paraffinic Distillate 64741-89-5	80-90	Oral	Rats	LD50 >15 gm/kg
Glycol Ether EB 111-76-2	10-20	Inhalation	Rats	LC50 450 ppm/4H

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Solvent Refined Light Paraffinic Distillate 64741-89-5	80-90	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	10-20	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

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: ORM-D CONSUMER COMMODITY
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

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

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Solvent Refined Light Paraffinic Distillate 64741-89-5	80-90	Not Listed	Not Listed	NA	NA
Glycol Ether EB 111-76-2	10-20	Not Listed	Not Listed	NA	NA

SARA 311/312 Hazard Categories: Not Determined.

Trade Name: Heartland Power Steering Flush **MSDS NO.** 71126

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
Solvent Refined Light Paraffinic Distillate 64741-89-5	80-90	Not Listed	Not Listed	Not Listed	Not Listed
Glycol Ether EB 111-76-2	10-20	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.

MATERIAL SAFETY DATA SHEET

Trade Name: Heartland Universal Power Steering Fluid
MSDS NO. 71120
Revision Date: 10/10/2003
Date Printed: 11/14/2003

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Heartland Universal Power Steering Fluid
Chemical Family: Petroleum Oil Blend
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: The Heartland, P.O. 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
Refined Petroleum Oil and selected additives Not Availabl	100	None Established	None Established	5 mg/m3 as Oil mist	None Established

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes moderate eye irritation. May cause moderate eye irritation. Possible redness and defatting may result from prolonged skin exposure to this material.

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: Get immediate medical attention. DO NOT INDUCE VOMITING. Give nothing by mouth.
Inhalation: Not a hazard under normal use conditions. 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: Flush with copious amounts of water. Remove contaminated clothing and shoes, and launder before reuse. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): 390 - 420 F.
Flash Point Method: TAG Open 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.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not realse runoff from fire control methods to sewers or waterways.

Hazardous Combustion Products: Oxides of carbon, nitrogen and phosphorus. Hydrogen Sulfide.

Aerosol Comments: Not Applicable

7. HANDLING AND STORAGE

Handling and Storage: Avoid contact with eyes. Keep containers tightly closed when not in use. Good hygienic practices should be observed. Work clothes should be washed seperately at the end of each work day. Disposable clothing should be discarded with material. Wash thoroughly after handling. Do Not Swallow.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Wear protective equipment specified. Contain any liquid from leaking containers. Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials. Wash walking surfaces with detergent and water to reduce slipping hazard.
Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eyewash stations. Showers. Use local exhaust.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Use chemical resistant gloves for prolonged skin contact. Launder contaminated clothing before reuse.
Respiratory Protection: Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

Trade Name: Heartland Universal Power Steering Fluid MSDS NO. 71120

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow to amber color liquid.
Odor: MILD HYDROCARBON 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: SLIGHT Bulk Density at 20°C: Not Determined
Molecular Weight: Mixture Evaporation Rate: Not Determined
Viscosity: Not Determined Specific Gravity (H2O=1): <1.00 @ 60F
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.
Hazardous Decomposition Products: Oxides of nitrogen. Oxides of carbon. Oxides of phosphorus. Hydrogen sulfide
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Refined Petroleum Oil and selected additives Not Availabl	100	Oral	Rats	LD50 5000 mg/kg

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Refined Petroleum Oil and selected additives Not Availabl	100	Not Listed	Not Listed	Not Listed

No component known to be present in this product at >.1% is presently listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: If disposed of, this material may be hazardous for disposal under RCRA due to reactivity.

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 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:

Trade Name: Heartland Universal Power Steering Fluid **MSDS NO.** 71120

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Refined Petroleum Oil and selected additives Not Availabl	100	Not Listed	Not Listed	NA	NA

Hazardous per OSHA 29 CFR 1910.1200

SARA 311/312 Hazard Catagories: Immediate Delayed

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
Refined Petroleum Oil and selected additives Not Availabl	100	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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