

MATERIAL SAFETY DATA SHEET

Trade Name: Heartland Transmission Sealer and Conditioner
MSDS NO. 61088
Revision Date: 12/27/2002

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Heartland Transmission Sealer and Conditioner
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
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	40-60	Not known	Mist 5 mg/m3	TLV Mist 5 mg/m3 8 HR.	Not Known
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	None Established	None Established	None Established	None Established
Aromatic 100 (Solvent 100) 64742-95-6	10-30	None Established	None Established	None Established	None Established
1,2,4-trimethylbenzene 95-63-6	0-5	Not Established	Not Established	Not Established	Not Established

3. HAZARDS IDENTIFICATION

Emergency Overview: May irritate the skin. May cause moderate eye irritation. Gross inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness or death. Avoid breathing vapors. May be fatal if inhaled.

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. If material is hot, treat for thermal burns and take victim to hospital immediately.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.

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): >350 F

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: Foam. Water. Dry chemical.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.

Hazardous Combustion Products: Fumes and Smoke. Carbon Monoxide.

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.
Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition.

Trade Name: Heartland Transmission Sealer and Conditioner **MSDS NO.** 61088

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 breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Caution: Combustible. Keep away from heat and open flame. Keep away from food and smoking materials. Wash hands before eating and smoking.

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. 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):	Not Determined
Boiling Point (°F):	>400 F	Melting/Freezing Point:	Not determined.
Solubility in Water:	NEGLIGIBLE	Bulk Density at 20°C:	Not Determined
Molecular Weight:	Mixture	Evaporation Rate:	Not Determined
Viscosity:	Not determined.	Specific Gravity (H2O=1):	.9 approx.
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. 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	40-60	NA	NA	Not known.
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	Oral	Rats	LD50 >15 gm/kg
Aromatic 100 (Solvent 100) 64742-95-6	10-30	Oral	Rats	LD50 8400 mg/kg
1,2,4-trimethylbenzene 95-63-6	0-5	Inhalation	Rats	LC50 18 gm/m3/4H

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	40-60	Not Listed	Not Listed	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	Not Listed	Not Listed	Not Listed
Aromatic 100 (Solvent 100) 64742-95-6	10-30	Not Listed	Not Listed	Not Listed
1,2,4-trimethylbenzene 95-63-6	0-5	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 determined.
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	40-60	Not Listed	Not Listed	NA	NA
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	Not Listed	Not Listed	NA	NA
Aromatic 100 (Solvent 100) 64742-95-6	10-30	Not Listed	Not Listed	NA	NA
1,2,4-trimethylbenzene 95-63-6	0-5	Listed	Not Listed	NA	NA

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
Heavy Hydrotreated Naphthenic Distillates (petroleum) 64742-52-5	40-60	Not Listed	Not Listed	Not Listed	Not Listed
Mineral Oil, petroleum distillates, hydrotreated (severe) heavy paraffinic 64742-54-7	20-50	Not Listed	Not Listed	Not Listed	Not Listed
Aromatic 100 (Solvent 100) 64742-95-6	10-30	Not Listed	Not Listed	Not Listed	Not Listed

Trade Name:	Heartland Transmission Sealer and Conditioner	MSDS NO.	61088		
1,2,4-trimethylbenzene 95-63-6	0-5	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: 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.