

MSDS NO. 61050

PRODUCT HEARTLAND OIL SUPPLEMENT 12 OZ

REVISION

REV. DATE 12/14/94

DATE 12/22/94

HEARTLAND MANUFACTURING
105 BROOK COURT

BOLLING BROOK IL60440

01. PRODUCT IDENTIFICATION

CHEMICAL NAME: MGVI-500
SYNONYM(S)/COMMON NAME(S):
OIL SUPPLEMENTCHEM FORMULA: PROPRIETARY
CAS NUMBER: 6474-26-50DOT SHIP NAME: NON-HAZARDOUS
DOT HAZ CLASS: NON-HAZARDOUS
DOT ID NUMBER: NA

	FLAMMABILITY (RED)		
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	/1 \		
	/\	/\	
HEALTH	/ 1 \	0 \	REACTIVITY
(BLUE)	\ /	/	(YELLOW)
	\ \	/ \	
	\	/	
	\ \	/ \	
	SPECIAL HAZARD		

02. HAZARDOUS INGREDIENTS

INGREDIENT	OSHA PEL / ACGIH TLV	CAS NUMBER	PERCENT
150 LP SOLVENT NEUTRAL OIL	5MG M3 / NA	6474-26-50	90-95%
PETROLEUM LUBRICATING BASE STOCK	NA / NA	NA	>1%

OTHER COMPONENTS NOT CONSIDERED HAZARDOUS

03. PHYSICAL CHARACTERISTICS

BOILING POINT: APPX 575 DEG F
 SPECIFIC GRAVITY (H2O = 1): 0.860
 VAPOR PRESSURE (MM HG): < .01 @ 20 C
 MELTING POINT: 0 DEG F
 VAPOR DENSITY (AIR = 1): > 5
 SOLUBILITY IN WATER: < 0.1%
 EVAPORATION RATE (BUTYL ACETATE = 1): < .01
 APPEARANCE & ODOR: CLEAR YELLOW LIQUID WITH PETROLEUM ODOR.

04. FIRE AND EXPLOSION DATA

AUTOIGNITION TEMPERATURE
NOT APPLICABLE.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS
IN INCOMPLETE COMBUSTION, FUMES, SMOKE, CARBON MONOXIDE, ALSEHYDES
AND OTHER DECOMPOSITION PRODUCTS ARE FORMED.

"EMPTY" CONTAINER WARNING
DISPOSAL OF WASTE MATERIAL OR REDSIDUE MAY BE SUBJECT TO FEDERAL,
STATE AND LOCAL REGULATION. CONSULT WITH APPROPRIATE REGULATORY
AGENCY BEFORE DISCHARGING OR DISPOSING OF WASTE MATERIAL.
BEFORE TRANSPORTING WASTE MATERIAL SEE U.S. PUBLICATION 49 CFR
SECTION 172

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES
FOAM, WATER FOG, DRY CHEMICAL OR CARBON DIOXIDE.

FIRE AND EXPLOSION HAZARD INFORMATION
NONE. IN COMPLETE COMBUSTION, FUMES, SMOKE CARBON MONOXIDE,
ALSEHYDES AND OTHER DECOMPOSITION PRODUCTS ARE FORMED.

FLASH POINT (MINIMUM)
MIMIMUM 320 DEG. F. COC

FLAMMABLE OR EXPLOSIVE LIMITS (APRX. % BY VOLUME IN AIR)
ESTIMATED VALUES: LEL = 0.9%
UEL = 7%

SPECIAL FIRE FIGHTING PROCEDURES
NONE, EXCEPT IN CLOSED AREAS. FIRE FIGHTING PERSONNEL SHOULD USE
SUPPLIED-AIR BREATHING EQUIPMENT.

05. REACTIVITY DATA

REACTIVITY
STABLE

06. HEALTH HAZARD DATA

EFFECT OF OVEREXPOSURE (SIGNS AND SYMPTOMS OF EXPOSURE)
NONE KNOWN

INGESTION
INGESTION MAY CAUSE ILLNESS ALTHOUGH IT HAS A LOW ORDER OF ACUTE ORAL
TOXICITY. IF INJESTED, CALL A PHYSICIAN.

INHALATION
IF HOT PRODUCT IS BREATHED, OIL MIST MAY CAUSE BREATHING PROBLEMS,

06. HEALTH HAZARD DATA

(CONTINUED)

(I.E., SHORTNESS OF BREATH). REMOVE TO FRESH AIR. CONTACT A PHYSICIAN IF BREATHING DIFFICULTY PERSISTS.

NATURE OF HAZARD

EYES: IF CONTACTED WITH EYES, FLUSH THOROUGHLY WITH CLEAN WATER. IF IRRITATION PERSISTS CONTACT A PHYSICIAN.
SKIN: IF CONTACTED WITH SKIN, FLUSH THOROUGHLY WITH CLEAN WATER. IF IRRITATION PERSISTS CONTACT A PHYSICIAN.
INGESTION: CONTACT A PHYSICIAN IMMEDIATELY FOR MEDICAL ADVICE.
INHALATION: MAY CAUSE SHORTNESS OF BREATH OR BREATHING DIFFICULTIES. IF BREATHING DIFFICULTIES PERSISTS AFTER MOVING TO FRESH AIR, CONTACT A PHYSICIAN.

CONTACT A PHYSICIAN.

SKIN CONTACT

WASH THOROUGHLY WITH CLEAN WATER. IF SKIN IRRITATION PERSISTS CALL A PHYSICIAN.

VARIABILITY AMONG INDIVIDUALS

OIL TREATMENT IS RELATIVELY NON-TOXIC FOLLOWING ACUTE EXPOSURE. TLV = 5MG/M3 AS OIL MISTS. IF HOT PRODUCT IS BREATHED, OIL MIST MAY CAUSE BREATHING PROBLEMS. CONTACT A PHYSICIAN IF NECESSARY.

07. PRECAUTIONS FOR SAFE HANDLING AND USE

PRECAUTIONS FOR HANDLING

SEE SEC. 09 SPECIAL PRECAUTION

08. INDUSTRIAL HYGIENE CONTROL MEASURES

INDUSTRIAL HYGIENE CONTROL MEASURES

SEE SEC. 06 HEALTH HAZARD DATA

09. SPECIAL PRECAUTIONS

EYE PROTECTION

AVOID CONTACT WITH EYES. SAFETY GOGGLES REQUIRED.

OTHER PROTECTIVE EQUIPMENT

USUALLY NOT NEEDED.

PERSONAL HYGIENE

EXPOSED EMPLOYEES SHOULD EXERCISE REASONABLE PERSONAL CLEANLINESS; THIS INCLUDES CLEANSING EXPOSED SKIN AREAS SEVERAL TIMES DAILY. LAUNDRER CLOTHES AT LEAST TWICE WEEKLY.

09. SPECIAL PRECAUTIONS

(CONTINUED)

PROTECTIVE GLOVES

IMPERVIOUS GLOVES RECOMMENDED.

RESPIRATORY PROTECTION

USE RESPIRATOR APPROVED FOR TLV LESS THAN .05 MG/M3 IN CONFINED SPACE

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE SOURCE OF IGNITION, MOP AND SOAK UP WITH ABSORBENT FLOOR COMPOUND. FOLLOW ACCEPTED INDUSTRY PRACTICES AND OR LOCAL, STATE AND FEDERAL REGULATIONS. WASTE DISPOSAL METHOD: INCINERATE IN APPROVED MANNER OR USE APPROVED LAND FILL CONFORMING TO LOCAL DISPOSAL REG.

VENTILATION

LOCAL EXHAUST: ENOUGH TO KEEP CONCENTRATIONS BELOW THE TLV (5MG/G3).
MECHANICAL (GENERAL): RECOMMENDED.

WORK PRACTICES / ENGINEERING CONTROLS

WEAR BODY-COVERING CLOTHES TO AVOID PROLONGED EXPOSURE. LAUNDER SOILED WORK CLOTHES BEFORE REUSE. MINIMIZE BREATHING FUMES. WASH THOROUGHLY WITH SOAP AND WATER AFTER USE, AND BEFORE SMOKING OR EATING.

10. DISCLAIMER

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