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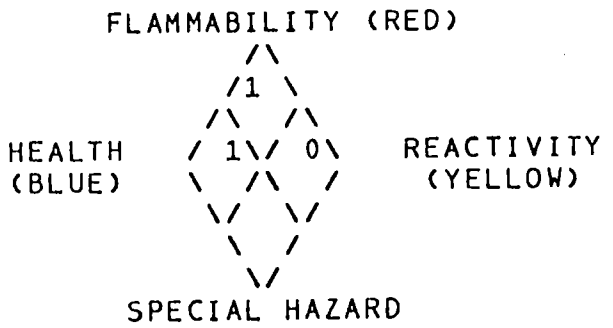
M A T E R I A L S A F E T Y D A T A S H E E T

MSDS NO. 61015
PRODUCT HEARTLAND ENGINE SEALER 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: ENGINE OIL ADDITVIE
SYNONYM(S)/COMMON NAME(S):
ENGINE OIL SEALER ADDITIVE
CHEM FORMULA: NA MIXTURE
CAS NUMBER: NA MIXTURE
DOT SHIP NAME: NON-HAZARDOUS
DOT HAZ CLASS: NON-HAZARDOUS
DOT ID NUMBER: NA



EMERGENCY TELEPHONE NUMBER
CHEMTREC 1-800-424-9300

IMCO SHIP NAME: NA
IMCO HAZARD CLASS: NA
IMCO ID#: NA

02. HAZARDOUS INGREDIENTS

INGREDIENT	OSHA PEL / ACGIH TLV	CAS NUMBER	PERCENT
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THIS PRODUCT IS CONSIDERED A NON-HAZARDOUS MATERIAL.

03. PHYSICAL CHARACTERISTICS

PH
NO DATA
VISCOSITY
NO DATA

3. PHYSICAL CHARACTERISTICS

(CONTINUED)

BOILING POINT: > 500 DEG F
SPECIFIC GRAVITY (H2O = 1): 0.926 @ 60 F
VAPOR PRESSURE (MM HG): < 0.1MM HG
MELTING POINT: NA
VAPOR DENSITY (AIR = 1): > 1.0
SOLUBILITY IN WATER: INSOLUBLE
EVAPORATION RATE (BUTYL ACETATE = 1): < 0.01
APPEARANCE & ODOR: CLEAR RED LIQUID WITH PETROLEUM ODOR.

4. FIRE AND EXPLOSION DATA

FLASH POINT
NONAPPLICABLE.

COMPOSITION PRODUCTS UNDER FIRE CONDITIONS
CO, CO2, AND TRACE OXIDES OF PHOSPHORUS.

"EMPTY" CONTAINER WARNING
COMPLY WITH ACCEPTED INDUSTRY PRACTICES AND/OR FEDERAL, STATE AND
LOCAL REGULATIONS. CHECK BEFORE HANDLING.

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES
CO2, DRY CHEMICAL, FOAM AND WATER FOG.

FLASH POINT (MINIMUM)
325 DEG F.

FLAMMABLE OR EXPLOSIVE LIMITS (APRX. % BY VOLUME IN AIR)
NONAPPLICABLE.

5. REACTIVITY DATA

REACTIVITY
STABILITY: STABLE. CONDITIONS TO AVOID: STRONG OXIDIZERS.

6. HEALTH HAZARD DATA

EFFECT OF OVEREXPOSURE (SIGNS AND SYMPTOMS OF EXPOSURE)
NONE KNOWN. PRODUCT IS PRACTICALLY NON TOXIC.
LETHAL DOSE: ORAL, >5G/KG; DERMAL, >3G/KG; INHALATION,
NOT DETERMINED.

EYE CONTACT
FLUSH WITH LARGE VOLUMES OF FRESH WATER.

INGESTION
DO NOT INDUCE VOMITING - SEEK MEDICAL AID. (ORAL: >5G/KG).

HEALTH HAZARD DATA

(CONTINUED)

HALATION

REMOVE TO FRESH AIR. RESPIRATORY SUPPORT IF NECESSARY, SEEK MEDICAL AID. (ACUTE AND CHRONIC HEALTH LIMITS HAVE NOT BEEN DETERMINED).

URE OF HAZARD

EYES: SLIGHT TO MODERATE EYE IRRITATION -- IF CONTACT OCCURS, FLUSH WITH WATER FOR 15 MINUTES.

SKIN: SLIGHTLY IRRITATING WITH POSSIBLE REDNESS, EDEMA, OR DRYING OF THE SKIN -- IF SKIN CONTACT, FLUSH EXPOSED AREAS WITH SOAP AND WATER (CONTACT PHYSICIAN OF REDNESS PERSISTS).

INGESTION: CONTACT PHYSICIAN IMMEDIATELY FOR MEDICAL ADVISE;
INHALATION: NOT DETERMINED.

N CONTACT

WASH WITH SOAP AND WATER (DERMAL: >3G/KG).

VIABILITY AMONG INDIVIDUALS

POWER STEERING FLUID IS RELATIVELY NON-TOXIC FOLLOWING ACUTE EXPOSURE.
TLV = 5 MG/M3 AS OIL MIST.

PRECAUTIONS FOR SAFE HANDLING AND USE

E HANDLING

WHEN USING ANY OIL PRODUCTS: ALWAYS RETURN ALL USED OIL TO COLLECTION CENTER FOR RECYCLING AND/OR PROPER DISPOSAL.

DON'T POLLUTE*CONSERVE RESOURCES*RETURN USED OIL TO COLLECTION CENTERS

CAUTIONS FOR HANDLING

SEE SEC 09

INDUSTRIAL HYGIENE CONTROL MEASURES

DUSTRAL HYGIENE CONTROL MEASURES

SEE SEC 09

SPECIAL PRECAUTIONS

E PROTECTION

CHEMICAL GOGGLES, OR FACE SHIELD OPTIONAL.

HER PROTECTIVE EQUIPMENT

NONE NORMALLY REQUIRED.

PERSONAL HYGIENE

09. SPECIAL PRECAUTIONS

(CONTINUED)

MINIMIZE SKIN CONTACT. CLEANSE SKIN THOROUGHLY AFTER CONTACT BEFORE MEALS, AND AT THE END OF WORK PERIOD. PRODUCT IS READILY REMOVED FROM SKIN BY WATERLESS HAND CLEANERS FOLLOWED BY WASHING THOROUGHLY WITH SOAP AND WATER.

PROTECTIVE GLOVES

CHEMICAL IMPERVIOUS GLOVES ARE RECOMMENDED.

RESPIRATORY PROTECTION

NONE REQUIRED WHEN HANDLING AT MINIMUM FEASIBLE TEMPERATURES.

SPILL OR LEAK PROCEDURES

IN CASE MATERIAL IS RELEASED OR SPILLED, AVOID CONTACT WITH EYES. CONTAIN SPILL IF POSSIBLE. WIPE UP OR ABSORB ON SUITABLE MATERIAL AND SHOVEL UP. COMPLY WITH APPLICABLE FEDERAL, STATE OR LOCAL REGULATIONS.

VENTALATION

LOCAL EXHAUSE: NORMAL, MECHANICAL (GENERAL): NOT DETERMINED.
SPECIAL/OTHER: NONE REQUIRED.

WORK PRACTICES / ENGINEERING CONTROLS

WEAR BODY COVERING-CLOTHES TO AVOID PROLONGED EXPOSURE. LAUNDER SOILED WORK CLOTHES BEFORE REUSE.