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MATERIAL SAFETY DATA SHEETS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: LUBRICATING GREASE

ISSUE DATE: SEPTEMBER 2009

THIS GENERIC MSDS REPRESENTS THE FOLLOWING VEXTROM PRODUCT:

MERAK MULTIPURPOSE - 2

CAS NUMBER:

MIXTURE

SYNONYMS / GENERAL NAMES:

PETROLEUM LUBRICATING GREASE

24 HOUR EMERGENCY TELEPHONE:

(CHEMTREC) 1-800-424-9300 – toll free in the U.S., Canada, and U.S Virgin Islands
703-527-3887 – for calls originating elsewhere.

TECHNICAL INFORMATION:

954 - 284 - 6785

2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

COMPONENTS	CAS N°	%	HAZARD DATA
HIGHLY-REFINED LIGHT MINERAL BASE OILS PETROLEUM ADDITIVES	64742-55-8 MIXTURE	0-85 < 20	ORAL (LD50): >1500 mg/kg DERMAL (LD50): >2000 mg/kg

HAZARDOUS INGREDIENTS: NONE

HAZARDOUS PER 29 CFR 1916.1200: NA

3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY:	INHALATION OF INCIDENTAL MISTS OR VAPORS.
TARGET ORGANS:	NA
IRRITANCY:	EYE CONTACT MIGHT RESULT IN SLIGHT IRRITATION. SKIN CONTACT MIGHT RESULT IN SLIGHT IRRITATION, POSSIBLE MILD ALLERGEN. SUBCUTANEOUS OR INTRAMUSCULAR INJECTION MAY CAUSE IRRITATION, ERYTHEMA, OR EDEMA.
REPRODUCTIVE EFFECTS:	N/A
CANCER INFORMATION:	N/A

4. FIRST AID MEASURES

EYES:	FLUSH WITH LARGE VOLUMES OF WATER
DERMAL:	WASH WITH SOAP AND WATER, UNTIL ALL TRACES OF MATERIAL ARE REMOVED.
INGESTION:	DO NOT INDUCE. SEEK MEDICAL AID.
INHALATION:	REMOVE FROM EXPOSURE TO INCIDENTAL FUMES AND PROVIDE RESPIRATORY SUPPORT IF NECESSARY.
INJECTION:	SEEK MEDICAL AID.

5. FIRE FIGHTING MEASURES

FLASH POINT °C (°F): 186°C (367°F)
FLAMMABLE LIMITS (% BY VOLUME): LOWER: ND UPPER: ND
EXTINGUISHING MEDIA: USE DRY CHEMICAL, FOAM, CARBON DIOXIDE OR WATER FOG.
SPECIAL FIRE FIGHTING PROCEDURES: N/A
AUTOIGNITION TEMPERATURE: N/A
EXPLOSION DATA: N/A

National Fire Protection Association (U.S.A.)



6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: SMALL SPILLS - TAKE UP WITH NON-COMBUSTIBLE ABSORBENT SUCH AS FULLER'S EARTH OR SAND. PLACE INTO CONTAINERS FOR LATER DISPOSAL. LARGE SPILLS: CONTAIN SPILL OF PRODUCT OR USED OIL IN EARTHEN DIKES FOR LATER RECOVERY. CONTROL IGNITION SOURCES AROUND SPILL AREA. REPORT SPILLS AS REQUIRED TO APPROPRIATE AUTHORITIES.

7. HANDLING AND STORAGE

HANDLING PROCEDURES: INSPECT EMPTY CONTAINERS BEFORE USE. THEY MAY CONTAIN PRODUCT RESIDUE WHICH COULD INCLUDE FLAMMABLE AND EXPLOSIVE VAPORS.

STORAGE PROCEDURES: KEEP CONTAINER AWAY FROM HEAT AND FLAME.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	USE IN WELL VENTILATED AREA. IN CONFINED SPACE, MECHANICAL VENTILATION MAY BE REQUIRED TO KEEP LEVELS OF CERTAIN COMPONENTS BELOW MANDATED STANDARDS, AS EVALUATED BY DESIGNATED PERSONNEL.
GLOVES PROTECTION:	OIL IMPERVIOUS GLOVES, RUBBER OR POLYMER, IF FREQUENT OR PROLONGED CONTACT IS EXPECTED.
EYE PROTECTION:	SAFETY GLASSES.
RESPIRATORY PROTECTION:	IF HIGH CONCENTRATIONS OF MISTS OR FUMES ARE EXPECTED, USE APPROVED ORGANIC RESPIRATOR.
CLOTHING RECOMMENDATION:	WEAR BODY-COVERING GARMENTS TO PREVENT PROLONGED OR REPEATED DIRECT DERMAL EXPOSURE. LAUNDRY WORK CLOTHES BEFORE REUSE.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	RED LIQUID
ODOR:	MILD PETROLEUM ODOR
pH:	N/A
VAPOR PRESSURE, mm Hg (25 °C):	$\sim 2 \times 10^{-3}$
VAPOR DENSITY:	>1
MELTING POINT:	N/A
BOILING POINT 760mm Hg, °C	$\sim 308^{\circ}\text{C}$ ($\sim 587^{\circ}\text{F}$)
SOLUBILITY IN WATER:	Negligible

SPECIFIC GRAVITY:	0.87
EVAPORATION RATE:	< 1
VISCOSITY	N/A
PERCENT VOLATILE:	NEGLIGIBLE

10. STABILITY AND REACTIVITY

STABILITY:	STABLE
INCOMPATIBILITY:	STRONG OXIDIZERS, STRONG ACIDS, CAUSTICS
POLYMERIZATION:	NOT EXPECTED TO OCCUR
THERMAL DECOMPOSITION:	CO ₂ , (CO UNDER INCOMPLETE COMBUSTION

11. TOXICOLOGICAL INFORMATION

- ACUTE EXPOSURE-

ORAL TOXICITY:	LOW TOXICITY. IF LESS THAN 1 OZ. IS INGESTED, MATERIAL MAY PASS THROUGH THE SYSTEM WITHOUT HARM. ON INGESTION OF LARGE QUANTITIES, SLIGHT GI DISCOMFORT, DIARRHEA, AND/OR HEADACHE MAY OCCUR.
EYE IRRITATION:	TRANSIENT, SLIGHT IRRITATION.
INHALATION TOXICITY:	LOW RISK AT AMBIENT TEMPERATURES. MISTS OR FUMES MAY CAUSE DIZZINESS, HEADACHE, NAUSEA, RESPIRATORY IRRITATION, OR CHEMICAL PNEUMONITIS
DERMAL CONTACT:	TRANSIENT, SLIGHT IRRITANT, POSSIBLE MILD ALLERGEN.

- CHRONIC EXPOSURE-

CHRONIC TOXICITY:	NA
CARCINOGENICITY:	NA
MUTAGENICITY:	NA

12. HEALTH INFORMATION

PRECAUTIONARY LABELS: CAUTION: POSSIBLE MINOR ALLERGEN.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE IF THE MATERIAL IS A HAZARDOUS WASTE AT THE TIME OF DISPOSAL. DETERMINE COMPLIANCE STATUS WITH ALL APPLICABLE REQUIREMENTS PRIOR TO DISPOSAL.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:	PETROLEUM LUBRICATING OIL
HAZARD CLASS:	NON-HAZARDOUS
HAZARD IDENTIFICATION NUMBER:	N/A
DOT PLACARD:	N/A
COMPATIBILITY CATEGORY:	N/A

15. REGULATORY INFORMATION

SARA SECTION 313 - TOXIC CHEMICALS:

THIS PRODUCT DOES CONTAIN TOXIC CHEMICALS UNDER SARA SECTION 313 AND 40 CFR PART 372.

COMPONENTS	CAS #	%
NA	NA	NA

SARA SECTION 311 - HAZARD CATEGORIES:

THIS PRODUCT MAY MEET ONE OR MORE OF THE CRITERIA FOR THE HAZARD CATEGORIES DEFINED IN 40 CFR PART 370 AS ESTABLISHED BY SECTIONS 311 AND 312 OF SARA AS INDICATED BELOW:

NO	IMMEDIATE (ACUTE) HEALTH HAZARD	NO	SUDDEN RELEASE OF PRESSURE HAZARD
NO	DELAYED (CHRONIC) HEALTH HAZARD	NO	REACTIVE HAZARD
NO	FIRE HAZARD		

SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:

THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY COMPONENTS IN CONCENTRATIONS GREATER THAN ONE PERCENT THAT ARE LISTED AS EXTREMELY HAZARDOUS SUBSTANCES IN 40 CFR PART 355 PURSUANT TO THE REQUIREMENTS OF SECTION 302(A) OF SARA.

CLEAN WATER ACT (CWA):

UNDER THE CWA, DISCHARGES OF CRUDE OIL AND PETROLEUM PRODUCTS TO SURFACE WATER WITHOUT PROPER FEDERAL AND STATE PERMITS MUST BE REPORTED IMMEDIATELY TO THE NATIONAL RESPONSE CENTER AT (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

AS DEFINED BY CERCLA, THE TERM "HAZARDOUS SUBSTANCE" DOES NOT INCLUDE PETROLEUM, INCLUDING CRUDE OIL OR ANY FRACTION THEREOF WHICH IS NOT OTHERWISE SPECIFICALLY LISTED OR DESIGNATED AS A HAZARDOUS SUBSTANCE.

U.S. TSCA INVENTORY

ALL COMPONENTS OF THIS MATERIAL ARE ON THE U.S. TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE U.S. TSCA INVENTORY

16. OTHER INFORMATION

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. VEXTROM CORPORATION BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY OR RELIABILITY. VEXTROM CORPORATION SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE ARISING OUT OF THE USE THEREOF. THE INFORMATION AND RECOMMENDATIONS ARE OFFERED FOR THE USER CONSIDERATION AND EXAMINATION, AND IT IS THE USER RESPONSIBILITY TO SATISFY ITSELF THAT THEY ARE SUITABLE AND COMPLETE FOR ITS PARTICULAR USE.

NFPA HAZARD RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
HMIS HEALTH RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4