

Material Safety Data Sheet

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SECTION I - Material Identity

Item Name..... LUBRICATING OIL, ENGINE
 Part Number/Trade Name..... KENDALL NON-DETERGENT MOTOR OIL, ALL SAE
 GRA
 National Stock Number..... 9150010798310
 CAGE Code..... 75273
 Part Number Indicator..... A
 MSDS Number..... 133843
 HAZ Code..... B

SECTION II - Manufacturer's Information

Manufacturer Name..... WITCO CHEMICAL CORP, KENDALL REFINING CO.
 DIVISION
 P.O. Box..... 2000
 Street..... 77 N KENDALL AVENUE
 City..... BRADFORD
 State..... PA
 Country..... US
 Zip Code..... 16701-1726
 Emergency Phone..... 814-368-6111
 Information Phone..... 814-368-6111

MSDS Preparer's Information

MSDS Preparer Name..... LUTHER DROMGOLD
 Date MSDS Prepared/Revised..... 02MAY90
 Date of Technical Review..... 29JUL92
 Active Indicator..... Y
 Item Manager..... CX

Alternate Vendors

Vendor #1 Name..... INLAND PACKAGING
 Vendor #1 CAGE..... 66172
 Vendor #2 Name..... CROWN OIL & CHEMICAL CO. (504-733-9133)
 Vendor #2 CAGE..... 0CF76
 Vendor #3 Name..... DAVIS HOWLAND OIL CORP. (716-473-6650)
 Vendor #3 CAGE..... 5A565
 Vendor #4 Name..... MALTER INTERNATIONAL BULK CHEMICAL DIV.
 Vendor #4 CAGE..... 27978
 Vendor #5 CAGE..... BHJGM

SECTION III - Physical/Chemical Characteristics

Specification Number..... N/R
 Specification Type/Grade/Class..... N/R
 Hazard Storage Compatibility Code..... N1
 NRC License Number..... N/R
 Net Propellant Weight (Ammo)..... N/R
 Appearance/Odor..... DARK GREEN-BROWN LIQUID WITH MOTOR OIL
 ODOR
 Boiling Point..... >626F, >330C
 Melting Point..... <10F, <-12C
 Vapor Pressure..... NIL
 Vapor Density..... NOT VOLATI
 Specific Gravity..... 0.86 - 0.89
 Decomposition Temperature..... N/R
 Evaporation Rate..... NIL
 Solubility in Water..... NIL
 Percent Volatiles by Volume..... NIL
 Chemical pH..... N/R
 Corrosion Rate..... UNKNOWN
 Container Pressure Code..... 4
 Temperature Code..... 8
 Product State Code..... U

SECTION IV - Fire and Explosion Hazard Data

Flash Point..... 380
 Flash Point Method..... COC
 Lower Explosion Limit..... 1
 Upper Explosion Limit..... 10
 Extinguishing Media..... USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR
 WATER FOG.
 Special Fire Fighting Procedures..... FIRE FIGHTERS SHOULD USE NIOSH APPROVED
 SCBA & FULL PROTECTIVE EQUIPMENT WHEN
 FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO
 COOL NEARBY CONTAINERS EXPOSED TO FIRE.
 Unusual Fire/Explosion Hazards..... NONE SPECIFIED; FIRE OR EXCESSIVE HEAT MAY
 CAUSE PRODUCTION OF HAZARDOUS
 DECOMPOSITION PRODUCTS.

SECTION V - Reactivity Data

Stability..... YES
 Stability Conditions to Avoid..... HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES
 Materials to Avoid..... STRONG OXIDIZING AGENTS
 Hazardous Decomposition Products..... CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF
 PHOSPHORUS AND SULFUR AND OTHER
 UNIDENTIFIED COMPONENTS.
 Hazardous Polymerization..... NO

Polymerization Conditions to Avoid..... NOT APPLICABLE
 LD50 - LD50 Mixture..... TLV IS 5 MG/M3 FOR OIL MIT.

SECTION VI - Health Hazard Data

Route of Entry: Skin..... YES
 Route of Entry: Ingestion..... YES
 Route of Entry: Inhalation..... N/K
 Health Hazards - Acute and Chronic..... ACUTE:IRRITATION OF EYES AND SKIN;RESPIRATORY OR G.I.TRACTS IN CASE OF OIL MIST/VAPORS;CNS EFFECTS LIKE HEADACHE, DIZZINESS, NAUSEA, VOMITING POSSIBLE.CHRONIC:DRYING OF SKIN,DEFATTING OR DERMATITIS.
 Carcinogenity: NTP..... NO
 Carcinogenity: IARC..... NO
 Carcinogenity: OSHA..... NO
 Explanation of Carcinogenity..... DATA PER MSDS
 Symptoms of Overexposure..... SEE HEALTH HAZARDS DATA.
 Medical Cond. Aggravated by Exposure.... PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.
 Emergency/First Aid Procedures..... INHALATION:REMOVE TO FRESH AIR.
 RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled..... USE PROPER PERSONAL PROTECTION;REMOVE ALL IGNITION SOURCES;CONTAIN FREE MATERIAL IF POSSIBLE;USE SUITABLE INERT ABSORBENT MATERIAL AND RECOVER FOR PROPER DISPOSAL IN AN APPROVED CONTAINER.
 Neutralizing Agent..... NOT APPLICABLE.
 Waste Disposal Method..... CONSULT LOCAL AUTHORITIES.DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.
 Handling and Storage Precautions..... RE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.DO NOT STORE>100F DO
 Other Precautions..... DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH

EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

SECTION VIII - Control Measures

Respiratory Protection..... NONE NORMALLY NEEDED;USE NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS/MIST AS REQUIRED IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.

Ventilation..... NORTMAL ROOM VENTILATION OR LOCAL/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves..... NEOPRENE, NITRILE, OR NATURAL RUBBER

Eye Protection..... SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment..... EYE WASH STATION,WORK CLOTHING AND APRON AS REQUIRED.

Work Hygenic Practices..... OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Health/Safety Data..... AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

Disposal Code..... 0

SECTION IX - Label Data

Protect Eye..... YES

Protect Skin..... YES

Protect Respiratory..... NO

Chronic Indicator..... UNKNOWN

Contact Code..... SLIGHT

Fire Code..... UNKNOWN

Health Code..... UNKNOWN

React Code..... UNKNOWN

SECTION X - Transportation Data

Container Quantity..... 1

Unit of Measure..... QT

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)..... 0

Volatile Organic Compounds (G/L)..... 0

SECTION XII - Ingredients/Identity Information

Ingredient #..... 01

Ingredient Name..... LUBRICATING OIL (MIXTURE) PETROLEUM HYDROCARBONS

CAS Number..... MIXTURE

NIOSH Number..... 1000276LO
Proprietary..... NO
Percent..... N/K
OSHA PEL..... 5 MG/M3, AS OIL MIST
ACGIH TLV..... 5 MG/M3, AS OIL MIST
Recommended Limit..... NOT ESTABLISHED
Ingredient #..... 02
Ingredient Name..... ADDITIVES
CAS Number..... UNKNOWN
NIOSH Number..... 1000144AD
Proprietary..... NO
Percent..... N/K
OSHA PEL..... UNKNOWN
ACGIH TLV..... UNKNOWN
Recommended Limit..... NOT ESTABLISHED

NOTICE: For additional information, contact BIOENVIRONMENTAL

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