

IMPERIAL OIL CO.,INC. -- MIL-L-2104F OE30 QUAL#MC-3769

=====
MSDS Safety Information
=====

FSC: 9150
NIIN: 00-189-6727
MSDS Date: 04/16/1997
MSDS Num: CJGKY
Product ID: MIL-L-2104F OE30 QUAL#MC-3769
MFN: 02
Responsible Party
Cage: 58563
Name: IMPERIAL OIL CO.,INC.
Address: ORCHARD PLACE
Box: 279
City: MORGAN
VILLE NJ 07751
Info Phone Number: 908-591-9400/FAX -8825
Emergency Phone Number: 908-591-9400

=====
Item Description Information
=====

Item Manager: S9G
Item Name: LUBRICATING OIL,ENGINE
Unit of Issue: QT
UI Container Qty: G

=====
Ingredients
=====

Name: *** PROPRIETARY ***

=====
Health Hazards Data
=====

LD50 LC50 Mixture: LD50 (ORAL, RAT) N/K
Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: TARGET ORGANS: EYES AND SKIN (). ACUTE AND CHRONIC - WHILE THIS PRODUCT MAY IRRITATE THE SKIN FROM PROLONGED SKIN CONTACT, THERE IS NO MEDICAL OR TOXICOLOGICAL EVIDENCE THAT IT IS AN

IRRITANT, CO ROSIVE OR
CARCINOGEN. DIRECT CONTACT WITH EYES MAY CAUSE EYE IRRITATION. IT HAS A LOW
ORDER OF ORAL AND DERMAL TOXICITY. INHALATION OF PRODUCT MIST MAY CAUSE
PULMONARY PROBLEMS WHICH, AS WITH ANY I LLNESS, IF LEFT UNATTENDED, COULD
CAUSE PULMONARY INJURY.

Explanation Of Carcinogenicity: NONE.

Signs And Symptions Of Overexposure: FROM HUMAN EXPERIENCE & THE AVAILABLE
TECHNICAL DATA CONCERNING THIS PRODUCT & DUE TO ITS LOW ORDER OF DERMAL,
ORAL & INGESTIVE
TOXICITY, THE SIGNS & SYMPTOMS OR OVER-EXPOSURE ARE
UNKNOWN.

Medical Cond Aggravated By Exposure: DIRECT CONTACT WITH EYES MAY CAUSE EYE
IRRITATION. PROLONGED SKIN CONTACT. MAY CAUSE SKIN IRRITATION.

First Aid: GET MEDICAL HELP IF SYMPTOMS PERSIST. IF INHALED, REMOVE VICTIM TO
FRESH AIR. IF SPLASHED IN EYES, IMMEDIATELY PURGE WITH COPIOUS AMOUNT OF
WATER. HOLD EYELIDS OPEN. IN CASE OF SKIN CONTACT, CLEANSE W ITH WATERLESS
SOAP FOLLOWED BY THOROUGHLY WASHING WITH SOAP AND WATER. IF
SWALLOWED, DO
NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY.

=====
Handling and Disposal
=====

Spill Release Procedures: SPILL AREAS MAY BE SLICK OR SLIPPERY. USE CARE TO
AVOID FALLS OR OTHER ACCIDENTS. WEAR PROTECTIVE EQUIPMENT. PROVIDE ADEQUATE
VENTILATION. CONTAIN SPILLS IMMEDIATELY WITH INERT MATERIAL SUCH AS SAND,
CLAY, FULLER EARTH, ETC.. TRANSFER LIQUID TO DRUMS OR OTHER CONTA
INERS FOR

RECOVERY OR DISPOSAL. PREVENT ENTERY TO SEWERS AND OPEN BODIES OF WATER.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISPOSE OF CONTAMINATED DIKING MATERIAL ACCORDANCE TO
LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.

Handling And Storage Precautions: THESE LUBRICANTS BECOME VERY VISCOUS WHEN
STORED AT LOW TEMPERATURE. THEY CONGEAL AT TEMPERATURE FROM -12 TO 32C. KEEP
OUT OF REACH OF CHILDREN. STORE AWAY FROM HEAT, IGNITION SOURCES AND STRONG

OXIDI ZERS.

Other Precautions: USE PRODUCT WITH CAUTION AROUND OPEN FLAME, SPARKS, PILOT
LIGHTS AND STATIC ELECTRICITY. EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR
VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE , SOLDER OR
DRILL. THEY MAY EXPLODE ANDCAUSE INJURY. DO NOT ATTEMPT TO CLEAN, SINCE
RESIDUE IS DIFFI CULT TO REMOVE.

=====
Fire and Explosion Hazard Information
=====

=====

Flash Point Method: COC

Flash Point: =220.C, 428.F

Extinguishing Media: CARBON DIOXIDE, WATER FOG, FOAM, DRY CHEMICAL

Fire Fighting Procedures: WEAR MESA/NIOSH APPROVED SELF-CONTAINED BREATHING

APPARATUS (SCHEDULE 13) USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard: NONE.

=====

Control Measures

=====

Respiratory Protection: USE SUPPLIED AIR RESPIRATORY PROTECTION IN CONFINED OR

ENCLOSED SPACES IF NEEDED.

Ventilation: LOCAL EXHAUST.

Protective Gloves: IMPERVIOUS.

Eye Protection: SPLASH GOGGLES.

Other Protective Equipment: EYEWASH FACILITY.

Work Hygienic Practices: MINIMIZE BREATHING VAPOR, MIST, OR FUMES. REMOVE CONTAMINATED CLOTHING AND LAUNDRER OR DRY CLEAN BEFORE RE-USE. OIL SOAKED SHOES SHOULD BE DISCARDED.

Supplemental Safety and Health: DO NOT GET IN EYE, ON SKIN OR ON CLOTHING. AVOID INGESTION.

=====

=====

Physical/Chemical Properties

=====

HCC: V6

Boiling Point: =315.6C, 600.F

M.P/F.P Text: 0 (HIMIS-?)

Vapor Pres: 1MM

Vapor Density: 1

Spec Gravity: <1

Solubility in Water: 0

Appearance and Odor: DARK AMBER - NO ODOR

=====

Reactivity Data

=====

Stability Indicator: YES

Stability Condition To Avoid: N/A.

Materials To Avoid: CONTA

CT WITH STRONG OXIDIZERS.

Hazardous Decomposition Products: ONLY WHEN BURNING-CARBON MONOXIDE, CARBON DIOXIDE, DENSE BLACK FUMES, SULFUR AND NITROGEN COMPOUNDS.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.

=====
Toxicological Information
=====

Toxicological Information: NONE SPECIFIED BY MANUFACTURER.
=====

=====
Ecological Information
=====

Ecological: NONE SPECIFIED BY MANUFACTURER.
=====

=====
MSDS Transport Information
=====

Transport Information: NONE SPECIFIED BY MANUFACTURER.
=====

=====
Regulatory Information
=====

Sara Title III Information: NONE SPECIFIED BY MANUFACTURER.

Federal Regulatory Information: NONE SPECIFIED BY MANUFACTURER.

State Regulatory Information: NONE SPECIFIED BY MANUFACTURER.
=====

=====
Other Information
=====

Other Information: "EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID & VAPOR) & CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY EXPLODE & CAUSE INJURY. DO NOT ATTEMPT TO CLEAN, SINCE THE RESIDUE IS DIFFICULT TO REMOVE. "EMPTY" DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED & PROMPTLY RETURNED TO A DRUM RECONDITIONED. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER & IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.

=====
Transportation Information
=====

=====
Responsible Party Cage: 58563
Trans ID NO: 144044
Product ID: MIL-L-2104F OE30 QUAL#MC-3769
MSDS Prepared Date: 04/16/1997
Review Date: 06/10/1999
MFN: 2
Multiple KIT Number: 0
Unit Of Issue: QT
Container QTY: G
=====

Detail DOT Information
=====

DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

=====
Detail IMO Information
=====

IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
=====

Detail IATA Information
=====

IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

Detail AFI Information
=====

=====
AFI PSN Code: ZZZ
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

HAZCOM Label
=====

Product ID: MIL-L-2104F OE30 QUAL#MC-3769
Cage: 58563
Company Name: IMPERIAL OIL CO INC
Street: FOOT OF ORCHARD PL
PO Box: 279
City: MORGANVILLE NJ
Zipcode: 07751
Health Emergency Phone: 908-591-9400
Label Required IND: Y
Date Of Label Revie

w: 06/10/1999

Status Code: A

MFG Label NO: 0-237

Label Date: 04/16/1997

Year Procured: 1999

Origination

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: NO

Health Hazard: Slight

Contact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: EYES AND SKIN (). ACUTE AND CHRONIC -

WHILE THIS PRODUCT MAY IRRITATE THE SKIN FROM PROLONGED SKIN CONTACT, THERE IS NO MEDICAL OR TOXICOLOGIC

AL EVIDENCE THAT IT IS AN IRRITANT, CO RRORSIVE

OR CARCINOGEN. DIRECT CONTACT WITH EYES MAY CAUSE EYE IRRITATION. IT HAS A LOW ORDER OF ORAL AND DERMAL TOXICITY. INHALATION OF PRODUCT MIST MAY CAUSE PULMONARY PROBLEMS WHICH, AS WITH ANY I LLNESS, IF LEFT UNATTENDED, COULD CAUSE PULMONARY INJURY.

=====
Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense.

The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of

America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.