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IMPERIAL OIL CO.,INC. -- MIL-L-9000 H 9250 QUAL L-9000-1 -- 9150-00-181-8232

========== Product Identification ==========

Product ID:MIL-L-9000 H 9250 QUAL L-9000-1
MSDS Date:06/22/1992
FSC:9150
NIIN:00-181-8232
MSDS Number: BQDYM
=== Responsible Party ===
Company Name:IMPERIAL OIL CO.,INC.
Address:ORCHARD PLACE
City:MORGANVILLE
State:NJ
ZIP:07751
Country:US
Info Phone Num:201-591-9400
Emergency Phone Nu
m:201-591-9400
Preparer's Name:WILLIAM J. MAHONEY
CAGE:58563
=== Contractor Identification ===
Company Name:IMPERIAL OIL CO INC
Address:FOOT OF ORCHARD PL
Box:279
City:MORGANVILLE
State:NJ
ZIP:07751
Country:US
Phone:732-591-9400/FAX: 732-591-8825
CAGE:58563

========== Composition/Information on Ingredients ==========

Ingred Name:REFINED HEAVY PARAFFINIC DISTILLATES
CAS:64741-88-4
Fraction by Wt: >98%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3 (OIL MIST)
ACGIH TLV:5 MG/M3 (OIL MIS

T)

Ingred Name:ZINC DIALKYLDITHIOPHOSPHATE AND/OR ZINC DIARYL DITHIOPHOSPHATE
CAS:68649-42-3
RTECS #:TD5550000
Fraction by Wt: .03-.04%
Other REC Limits:NONE SPECIFIED

Ingred Name:DISTILLATES, HYDROTREATED HEAVY PARAFFINIC/DETERGENT & DISPERSANT IN HIGHLY REFINED BASE OIL
CAS:64742-54-7
RTECS #:PY8035500
Fraction by Wt: 0.6-0.7%
Other REC Limits:NONE SPECIFIED
OSHA PEL:300 PPM
ACGIH TLV:300 PPM

Ingred Name:CHLORINE AS CHLORO-ORGANO COMPLEX
Fraction by Wt: .04-.05%
Other REC Limits:NON
E SPECIFIED

Ingred Name:CALCIUM SULFONATE AND/OR CALCIUM PHENATE
CAS:68783-96-0
Fraction by Wt: 0.4-0.5%
Other REC Limits:NONE SPECIFIED

========== Hazards Identification ==========

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Explanation of Carcinogenicity:MFG STATES THAT ZINC DIALKYL/DIARYL DITHIOPHOSPHATE CAUSES TESTICULAR MUTATION WHEN APPLIED TO SKIN OF LAB ANIMALS.
Effects of Overexposure:DUE TO LOW ORDER OF DERMAL & ORAL TOXICITY, THE SIGN
S & SYMPTOMS OF OVER EXPOSURE ARE UNKNOWN.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES & SKIN MAY BE AT INCREASED RISK FROM EXPOSURE.

========== First Aid Measures ==========

First Aid:INHALATION:REMOVE TO FRESH AIR.GET MEDICAL ATTENTION, IF NEEDED.EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN.GET MEDICAL ATTENTION.SKIN:REMOVE CONTAMINATED CLOTHIN

G.WASH FIRST WITH WATERLESS SOAP,THEN SOAP AND WATER.INGESTION:DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

========== Fire Fighting Measures ==========

Flash Point Method:COC
Flash Point:450F,232C
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
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 Hazard:PHOSGENE GAS CAN BE LIBERATED WHEN CHLORO-ORGANICS BURN

========== Accidental Release Measures ==========

Spill Release Procedures:DIKE & CONTAIN SPILL WITH INERT MATERIAL (SAND,EARTH,FULLERS EARTH ETC.).TRANSFER LIQUID TO DRUMS OR OTHER CONTAINERS FOR RECOVERY OR DISPOSAL.AREA MAY BE SLIPPERY.CARE SHOULD BE TAKEN TO AVOID FALLS. PREVENT MATERIAL FROM GETTING INTO SEWERS & WATERS
Neutralizing Agent:NOT APPLICA
BLE.

========== Handling and Storage ==========

Handling and Storage Precautions:THESE LUBRICANTS BECOME VERY VISCOUS WHEN STORED AT LOW TEMPERATURE. THEY CONGEAL AT TEMPERATURE FROM -12 TO -32 C.
Other Precautions:USE PRODUCT WITH CAUTION AROUND OPEN FLAMES, HEAT, SPARKS, PILOT LIGHTS & STATIC ELECTRICITY. EMPTY CONTAINER WARNING:"EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) & CAN BE DANGEROUS.SEE SUP L. DATA SECTION.

========== Expo
sure Controls/Personal Protection ==========

Respiratory Protection:USE SUPPLIED-AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED SPACES IF NEEDED.
Ventilation:MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE.
Protective Gloves:IMPERVIOUS
Eye Protection:SPLASH GOGGLES
Other Protective Equipment:EYE WASH STATION
Work Hygienic Practices:MINIMIZE BREATHING VAPOR,MIST OR FUMES.REMOVE CONTAMINATED CLOTHING & LAUNDER BEFORE RE-USE.DISCARD OIL-SOAKED SHOES.
Supplemental Saf

ety and Health
EMPTY CONTAINERS ARE DANGEROUS;DO NOT PRESSURIZE,CUT,WELD,BRAZE,SOLDER DRILL,GRIND OR EXPOSE TO HEAT,FLAME,SPARKS OR OTHER SOURCES OF IGNITION;MAY EXPLODE AND CAUSE INJURY.DO NOT CLEAN;DRAIN,BUNG AND RETURN TO DRUM RECONDITIONER.

========== Physical/Chemical Properties ==========

HCC:V6
Boiling Pt:B.P. Text:600F,316C
Melt/Freeze Pt:M.P/F.P Text:0 (UNITS?)
Vapor Pres:1MM
Vapor Density:1
Spec Gravity:1
Evaporation Rate & Reference: