

IMPERIAL OIL CO.,INC. -- MIL-L-9000 H 9250 QUAL L-9000-36 -- 9150-00-181-8232

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

Product ID:MIL-L-9000 H 9250 QUAL L-9000-36

MSDS Date:06/02/1992

FSC:9150

NIIN:00-181-8232

MSDS Number: BQDYL

=== 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 Num:201-591-9400

Preparer's Name:WILLIAM J. MAHONEY

CAGE:58563

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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 MIST)

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:NONE 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
SIGNS & SYMPTOMS OF OVER EXPOSURE ARE UNKNOWN.
Medical Cond Aggravate
d 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
CLOTHING.WASH FIRST WITH WATERLESS SOAP,THEN SOAP AND
WATER.INGESTI

ON: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 APPLICABLE.

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

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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.

===== Exposure 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 Safety and Health

EMPTY CONTAINERS ARE DANGEROUS;DO NOT PRESSURIZE,C

UT,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: