

IMPERIAL OIL CO.,INC. -- MIL-L-9000 H 9250 QUAL ARA-9000-23 -- 9150-00-181-8232

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

Product ID:MIL-L-9000 H 9250 QUAL ARA-9000-23

MSDS Date:04/10/1989

FSC:9150

NIIN:00-181-8232

MSDS Number: BDGSR

=== 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

=== 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 OR ZINC DIARYL DI

THIOPHOSPHATE
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
Fra
ction 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:NO DATA AVAILABLE
Effects of Overexposure:DUE TO LOW ORDER OF DERMAL & ORAL TOXICITY, THE
SIGNS & 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
I
NCREASED 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.INGESTION:DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL
ATTENTION.

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

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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:NONE

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

Spill Release Procedures:DIKE & CONTAIN SPILL WITH INERT MATERIAL
(SAND,EARTH,FULLERS E
ARTH 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 =====

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

DO NOT PRESSURIZE,CUT,WELD,BRAZE,SOLDER DRILL,GRIND OR EXPOSE THEM TO
HEAT,FLAME,SPARKS OR OTHER SOURCES OF IGNITION:THEY MAY EXPLODE AND
CAUSE INJURY.DO NOT CLEAN THEM.

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

HCC:

V6

Boiling Pt:B.P. Text:600F,316C

Melt/Freeze Pt:M.P/F.P Text:0

Vapor Pres:1

Vapor Density:1

Spec Gravity:1

Evaporation Rate & Reference: