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

===

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

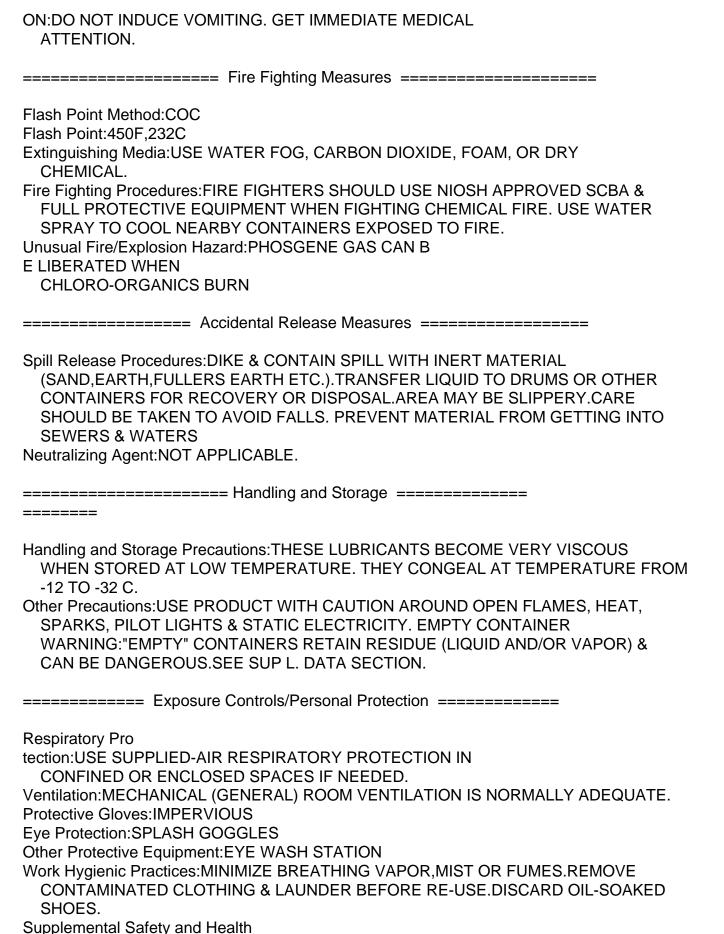
Explanation of Carcinogenicity:MFG STATES THAT ZINC DIALKYL/DIARYL DITHIOPHOSPHATE CAUSES TESTICULAR MUTATION WHEN APPLIED TO SKIN OF LAB ANIMALS.

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: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



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 & Dr. Reference: