

IMPERIAL OIL CO.,INC. -- MIL-L-9000 H 9250 QUAL.# ARA-9000-23 -- 9150-00-181-8097

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

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

MSDS Date:09/27/1994

FSC:9150

NIIN:00-181-8097

MSDS Number: BWBZG

=== Responsible Party ===

Company Name:IMPERIAL OIL CO.,INC.

Address:ORCHARD PLACE

Box:279

City:MORGANVILLE

State:NJ

ZIP:07751

Country:US

Info Phone Num:201-591-9400 -

RICHARD ROBINSON

Emergency Phone Num:908-591-9400/FAX -8825

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 RECOMMENDED

OSHA PEL:5 MG/M3 (OIL MIST)

ACGIH TLV:5 MG

/M3 (OIL MIST)

Ingred Name:ZINC DIALKYL DITHIOPHOSPHATE & ZINC DIARYL DITHIOPHOSPHATE  
(MIXED)

CAS:68649-42-3

Fraction by Wt: .03-.04%

Other REC Limits:NONE RECOMMENDED

Ingred Name:DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

CAS:64742-54-7

RTECS #:PY8035500

Fraction by Wt: .6-.7%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:300 PPM

ACGIH TLV:300 PPM

Ingred Name:CHLORINE AS CHLORO-ORGANO COMPLEX

CAS:7782-50-5

RTECS #:FO2100000

Fraction by Wt: .04-.05%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C

1 PPM

ACGIH TLV:0.5 PPM/1 STEL; 9394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:CALCIUM AS PHENATE AND/OR SULFONATE

CAS:7440-70-2

RTECS #:EV8040000

Fraction by Wt: .4-.5%

Other REC Limits:NONE RECOMMENDED

==== Hazards Identification =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards 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, A CORROSIVE OR A

CARCINOGEN. IT HAS A LOW ORDER OF ORAL & DERMAL TOXICITY.

INHALATION OF PRODUCT MIST MAY CAUSE PULMONARY PROBLEMS WHICH, IF  
NOT TREATED, MAY CAUSE PULMONARY INJURY

Explanation of Carcinogenicity:NO DATA AVAILABLE

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

Medical Con

d Aggravated by Exposure:DIRECT CONTACT WITH THE EYES MAY CAUSE EYE IRRITATION. PROLONGED SKIN CONTACT MAY CAUSE SKIN IRRITATION.

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

First Aid:IF SWALLOWED, DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY. IF SPLASHED INTO THE EYES, PURGE WITH COPIOUS AMOUNT OF WATER. IN CASE OF SKIN CONTACT, CLEANSE WITH WATERLESS SOAP FOLLOWED BY THOROUGH WASHING WITH SOAP & WATER.

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

Flash Point:450F,232C  
Extinguishing Media:CARBON DIOXIDE, WATER FOG, FOAM OR DRY CHEMICAL.  
Fire Fighting Procedures:WEAR MESA/NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO COOL EXPOSED TANKS, DRUMS AND PERSONNEL.  
Unusual Fire/Explosion Hazard:NONE.

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

Spill Release Procedures:DIKE & CONTAIN SPILL WITH INERT MATERIAL (SAND, EARTH, FULLERS EARTH, ETC.). RECOVER OR DISPOSE OF DIKED LIQUID. PREVENT MATERIAL FROM GETTING INTO SEWER & OPEN BODIES OF WATER. AREA MAY BE SLIPPERY - PREVENT FALLS.

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

Handling and Storage Precautions:THESE LUBRICANTS BECOME VERY VISCOUS WHEN STORED AT LOW TEMPERATURES. THEY CONGEAL AT -12 TO -32C. USE PRODUCT WITH CAUTION AROUND OPEN FLAMES, SPARKS

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE SUPPLIED-AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED SPACES IF NEEDED.  
Protective Gloves:IMPERVIOUS.  
Eye Protection:SPLASH GOGGLES  
Other Protective Equipment:EYEWASH FACILITY.  
Work Hygienic Practices:REMOVE CONTAMINATED CLOTHING AND LAUNDRY OR DRY CLEAN BEFORE RE-USE. OIL SOAKED SHOES SHOULD BE DISCARDED.  
Supplemental Safety and Health  
EMPTY CONTAINER WARNING! "EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SO

LDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION. DO NOT ATTEMPT TO CLEAN, SINCE THE RESIDUE IS DIFFICULT TO REMOVE.

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

HCC:V6

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

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

Vapor Pres: 1 @ 20C

Vapor Density: 1 (AIR=1)

Spec Gravity: 1 (WATER=1)

Evaporation Rate & Reference: 1 (N-BUTYL ACETATE=1)

Solubility in Water: 0

Appearance and Odor: DARK RED - ODORLESS.

==

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

CONTACT WITH STRONG OXIDIZERS.

Hazardous Decomposition Products: ONLY WHEN BURNING - CARBON MONOXIDE & CARBON DIOXIDE, SULFUR & NITROGEN COMPONENTS.

===== Disposal Considerations =====

Waste Disposal Methods: INCINERATE IN APPROVED EQUIPMENT OR LANDFILL CONTAMINATED DIKING MATERIAL ACCORDING TO CURRENT LOCAL, STATE AND FEDERAL REGULATIONS. THIS APPLIES TO UNRECOVERABLE LIQUID AS WELL.

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 this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.