

IMPERIAL OIL CO.,INC. -- IMP-EP-TURBINE OIL, MIL-L-17331H & AM-1, 2190 TEP -- 9150-00-235-9064

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

Product ID:IMP-EP-TURBINE OIL, MIL-L-17331H & AM-1, 2190 TEP

MSDS Date:09/23/1999

FSC:9150

NIIN:00-235-9064

Status Code:A

MSDS Number: CLPSY

=== Responsible Party ===

Company Name:IMPERIAL OIL CO.,INC.

Address:ORCHARD PLACE

Box:279

City:MORGANVILLE

State:NJ

ZIP:07751

Co

untry: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

Company Name:MARINE OIL SERVICES INC

Address:71 RADER ST

Box:City:NORFOLK

State:VA

ZIP:23510-1012

Country:US

CAGE:4P459

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

In

gred Name:LUBE OIL BASE STOCK
CAS:64741-88-4
RTECS #:PY8040501
> Wt:99.
Other REC Limits:NONE RECOMMENDED

Ingred Name:"PROPRIETARY" ADDITIVES(PER MSDS:LZ857, EXXON CHEM COREXIT
"C")
< Wt:1.
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Health Hazards Acute and Chronic:WHILE THIS PRODUCT MAY IRRITATE THE
SKIN FROM PROLONGED SKIN CONTACT, THERE IS NO MEDICAL OR
TOXICOLOG
ICAL EVIDENCE THAT IT'S AN IRRITANT, A CORROSIVE OR A
CARCINOGEN. IT HAS LOW ORDER OF ORAL/DERMAL TOXICITY. INHALATION
OF PRODUCT MIST MAY CAUSE PULMONARY PROBLEMS WHICH, AS WITH ANY
ILLNESS, IF LEFT UNATTENDED, SHOULD CAUSE PULMONARY INJURY.
Explanation of Carcinogenicity:NO AVAILABLE DATA. N
Effects of Overexposure:FROM HUMAN EXP. & THE AVAILABLE TECHNICAL DATA
CONCERNING THGIS PRODUCT & DUE TO ITS LOW ORDER OF DERMAL, ORAL &
INGESTIVE TOXICITY, THE SIGNS & SYMPTOMS OF O
VER EXPOSURE ARE
UNKNOWN.
Medical Cond Aggravated by Exposure:DIRECT CONTACT W/EYES MAY CAUSE EYE
IRRITATION. PROLONGED SKIN CONTACT MAY CAUSE SKIN IRRITATION.

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

First Aid:IF SWALLOWED DO NOT INDUCE VOMIT. CALL PHYSICIAN IMMED. IF
SPLASHED INTO EYES PURGE WITH COPIOUS AMOUNTS OF WATER. IN CASE OF
SKIN CONTACT CLEANSE WITH WATERLESS SOAP FOLLOWED BY THOROUGH
WASHING WI TH SOAP & WATER.

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

Flash Point Method:COC
Flash Point:=226.7C, 440.F
Autoignition Temp:Autoignition Temp Text:NP
Lower Limits:NP
Upper Limits:NP
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 &
PERSONNEL.
Unusual Fire/Explosion Hazard:NONE.

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

=

Spill Release Procedures:CONTAIN SPILLED MATL W/SAND/EARTH/CLAY/OTHER
SUITABLE DIKING MATERIAL. RECOVER FREE LIQUID BY PUMPING INTO
DRUMS/OTHER SUITABLE CONTAINERS. CLEAN AREA W/RAGS OR OTHER
ABSORBING MATERIALS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:THESE LUBRICANT BECOME VERY VISCOUS
WHEN STORED @LOW TEMPS. IT CONGEALS @-12C -32C. USE PRODUCT
W/CAUTION AROU
ND OPEN FLAMES/HEAT/SPARKS/PILOT LIGHTS/STATIC
ELECTRICITY.

Other Precautions:EMPTY CNTNR WARNING: EMPTY CNTNRS RETAIN
RESIDUE(LIQ/VAP)-DANGEROUS. DON'T PRESSURIZE/ CUT /WELD /BRAZE/
SOLDER/ DRILL/ EXPOSE CONTNRS TO HEAT/FLAME/SPARKS/OTHER SOURCES OF
IGNITION. DON'T ATTEMPT TO CLEAN-RESIDUE DIFFICUTL TO REMOVE.
EMPTY DRUMS (SEE SUPPLE)

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

Respiratory Protection:USE SUPPLIED-AIR RESPIRATORY PROTECTION IN
CO

NFINED OR ENCLOSED SPACES IF NEEDED.

Protective Gloves:IMPERVIOUS NEOPRENE,RUBBER OR PLASTIC.

Eye Protection:SPLASH GOGGLES.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:MINIMIZE BREATHING VAP/MIST/FUMES. REMOVE
CONTAMIN CLOTHING; LAUNDER/DRY CLEAN BEFORE REUSE. OIL SOAKED SHOES
SHOULD BE DISCARDED

Supplemental Safety and Health

OTHER PRECAUT:SHOULD BE COMPLETELY DRAINED/PROPERLY BUNGED/PROMPTLY
RETURENED TO DRUM RECONDITIONER. ALL OTHER CNTNRS S

HOULD BE

DISPOSED OF IN ENVIRO SAFE MANNER & IAW LOCAL/STATE/FED REGS.

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

HCC:V6

Boiling Pt:=600.C, 1112.F

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

Decomp Temp:Decomp Text:NP

Vapor Pres:1MM @20C

Vapor Density:1

Spec Gravity:1

pH:NP

Viscosity:NP

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

Solubility in Water:0

Appearance and Odor:AMBER COLOR, NO ODOR.

Percent Volatiles by Volume:NP

Corrosion Rate:NP

===== Stabi

lity and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

KEEP AWAY FROM STRONG ACIDS, ALKALIES & OXIDIZERS.

Stability Condition to Avoid:KEEP AWAY FROM EXTREME HEAT & OPEN FLAME.

Hazardous Decomposition Products:WHEN BURNING NITRIC ACID, CARBON MONOXIDE, & DIOXIDE, DENSE CARBONACEOUS SMOKE.

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

Waste Disposal Methods:INCINERATE IN APPROVED EQUIPMENT OR LANDFILL
CONTAMINATING MATERIAL ACCORD

ING TO CURRENT LOCAL, STATE &

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.