

IMPERIAL OIL CO.,INC. -- MIL-PRF-2105E, GEAR OIL 80W-90, MG-2110 -- 9150-01-035-5393

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

Product ID:MIL-PRF-2105E, GEAR OIL 80W-90, MG-2110

MSDS Date:03/16/1998

FSC:9150

NIIN:01-035-5393

MSDS Number: BTHWL

=== Responsible Party ===

Company Name:IMPERIAL OIL CO.,INC.

Address:ORCHARD PLACE

Box:279

City:MORGANVILLE

State:NJ

ZIP:07751

Country:US

Info Phone Num:732-591-9400

Emergency Phone Num:732-591-9400

CAGE:58563

=== Contractor Id

entification ===

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:NAUGHTON ENERGY CORP

Address:RT 940

Box:709

City:POCONO PINES

State:PA

ZIP:18350-0709

Country:US

Phone:570-646-0422

CAGE:1DL10

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

Ingred Name:LUBE OIL BASE STOCK/MINERAL OIL, SOLVENT REVFINE
HEAVY
PARAFFINIC, SEVERELY HYDROTREATED
CAS

:64741-88-4
RTECS #:PY8040501
Fraction by Wt: 93 - 96%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3 (OIL MIST)
ACGIH TLV:5 MG/M3 (OIL MIST)

Ingred Name:PROPRIETARY ADDITIVES (FROM LUBRIZOL CORP.)
Fraction by Wt: 4 - 7%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV FOR OIL MIST IS 5 MG/M3.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards
Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY
& GI TRACTS. ACUTE- EYE:MAY CAUSE IRRITATION.
SKIN:PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INHALE:MISTS
MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT. INGESTION:MAY BE
HARMFUL IF INGESTED. CHRONIC- MAY CAUSE DERMATITIS.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, NAUSEA
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRAT
ORY FUNCTION MAY BE
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:MOVE TO FRESH
AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15
MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:DO
NOT INDUCE VOMITING. IF CONSCIOUS, RINSE MOUTH WITH WATER. SEEK
IMMEDIATE MEDICAL ATTENTION. IF SPONTANEOUS VOMITING OCCURS, KEEP
HEAD BELOW HIPS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS
PERSON.

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

Flash Point Method:COC
Flash Point:392F,200C
Extinguishing Media:WATER FOG, CARBON DIOXIDE, SAND, FOAM/DRY CHEMICAL.
WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION
PRODUCTS MAY BE FORMED.
Unusual Fire

/Explosion Hazard:TOXIC GASES

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

Spill Release Procedures:RECOVER FREE OIL IF POSSIBLE. PICK UP SPILL WITH INERT MATERIAL SUCH AS SAND, CLAY, EARTH. SHOVEL INTO CONTAINERS FOR DISPOSAL. PREVENT RUN-OFF TO ENTER WATERWAYS, SEWERS. AREA MAY BE SLIPPERY. CARE S HOULD BE TAKEN TO AVOID FALL.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautio

ns:STORE AWAY FROM INCOMPATIBLES. KEEP

OUT OF REACH OF CHILDREN. KEEP CONTAINER CLOSED. DO NOT HEAT ABOVE 140F.

Other Precautions:DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID BREATHING OIL MIST. DISCARD LUBRICANT-SOAKED SHOES. REMOVE LUBRICANT-SOAKED CLOTHING AND LAUNDER BEFORE RE-USE. EMPTY CONTAINER RETAINS RESIDUE. FOLLO W LABEL INSTRUCTIONS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF WORKING IN CONFINED

AREAS, IF EXCESSIVE MISTING IS EXPECTED OR IF EXPOSURE MAY OR DOES EXCEED RECOMMENDED PERMISSIBLE EXPOSURE LIMITS (PEL), WEAR NIOSH-APPROVED SUPPLIED-AIR RESPIRATOR.

Ventilation:ADEQUATE

Protective Gloves:NITRILES, RUBBER, PVC

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. WASH BEFORE EATING OR DRINKING.

Supplemental Safety and Health

PERCENTAGE CHANGED. FOR PREVIOUS CONCENTRATION SEE PNI B, SAME NSN.

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

HCC:V6

NRC/State Lic Num:NOT RELEVANT

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

Vapor Pres:1 @ 68F

Vapor Density: