

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

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===== 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:732-591-9

400

Emergency Phone Num:732-591-9400

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:NAUGHTON ENERGY CORP

Address:RT 940

Box:709

City:POCONO PINES

State:PA

ZIP:18350-0709

Country:US

Phone:570-646-0422

CAGE:1DL10

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

Ingred Name:LUBE OIL BASE STOCK/MINERAL OIL,

SOLVENT REFINED 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

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

LD50 LC50 Mixture:TLV FOR OIL MIST IS 5 MG/M3.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Re

ports 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 P  
RE-EXISTING SKIN

DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE  
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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===== 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  
IMMEDIAT

E MEDICAL ATTENTION. IF SPONTANEOUS VOMITING OCCURS, KEEP  
HEAD BELOW HIPS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS  
PERSON.

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===== 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 SHOULD BE TAKEN TO AVOID FALL.  
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions: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 LAUNDRER BEFORE RE-USE. EMPTY CONTAINER RETAINS RESIDUE. FOLLOW 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 Hyg

enic 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: