

IMPERIAL OIL INC -- HYDRAULIC FLUID, PETROLEUM BASE ISO 32

=====

MSDS Safety Information

=====

FSC: 9150

NIIN: 00-985-7232

MSDS Date: 05/15/2000

MSDS Num: CLHDM

Product ID: HYDRAULIC FLUID, PETROLEUM BASE ISO 32

MFN: 02

Responsible Party

Cage: 58563

Name: IMPERIAL OIL CO INC

Address: FOOT OF ORCHARD PL

Box: 279

C

City: MORGANVILLE NJ 07751

Info Phone Number: 732-591-9400/FAX: 732-591-8825

Emergency Phone Number: 732-591-9400

Proprietary Ind: Y

Review Ind: Y

Published: Y

=====

Contractor Summary

=====

Cage: 58563

Name: IMPERIAL OIL CO INC

Address: FOOT OF ORCHARD PL

Box: 279

City: MORGANVILLE NJ 07751

Phone: 732-591-9400/FAX: 732-591-8825

Contract Number: SP0450-01-M-LL40

=====

=====

Item Description Information

=====

Item Manager: S9G

Item Name: HYDRAULIC FLUID,PETROLEUM BASE

Specification Number: MIL-H-17672D

Type/Grade/Class: ISO GRADE 32

Unit of Issue: CN

Quantitative Expression: 00000000005GL

UI Container Qty: K

Type of Container: CAN

=====

Ingredients

=====

Name: \*\*\* PROPRIETARY \*\*\*

-----

-----

=====

## Health Hazards Data

=====

Effects of Exposure: TARGET ORGANS: SKIN, RESPIRATORY TRACT. ACUTE EFFECTS: MILDLY IRRITATING TO SKIN. INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM THIS PRODUCT MAY CAUSE MILD IRRITATION TO THE RESPIRATORY TRACT. MINIMALLY IRRITATING TO THE EYES. CHRONIC EFFECTS: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DERMATITIS, OIL ACNE OR FOLLICULITIS.

Explanation Of Carcinogenicity: WHILE THIS PRODUCT MAY IRRITATE THE SKIN FROM PROLONGED SKIN CONTACT THERE IS NO MEDICAL OR TOXICOLOGICAL EVIDENCE THAT IT IS NEITHER AN "IRRITANT" NOR A "CARCINOGEN".

Signs And Symptoms Of Overexposure: FROM HUMAN EXP. AND THE AVAILABLE TECHNICAL DATA CONTAINING THIS PRODUCT AND DUE TO ITS LOW ORDER OF DERMAL, ORAL AND INGESTIVE TOXICITY, SIGNS AND SYMPTOMS OF OVER-EXPOSURE ARE UNKNOWN.

Medical Condition Aggravated By Exposure:

DIRECT CONTACT WITH THE EYES MAY CAUSE EYE IRRITATION. PROLONGED SKIN CONTACT MAY CAUSE SKIN IRRITATION.

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

=====

## Handling and Disposal

=====

S

Spill Release Procedures: DIKE AND CONTAIN SPILL WITH INERT MATERIAL (SAND, EARTH, FULLER'S EARTH, ETC.) TRANSFER LIQUID AND CONTAMINATED DIKING MATERIAL TO SEPARATE CONTAINERS FOR RECOVERY OR DISPOSAL. AREA MAY BE SLIPPERY - CARE SHOULD BE TAKEN TO AVOID FALLS, PREVENT MATERIAL FROM GETTING INTO SEWERS AND OPEN BODIES OF WATER.

Waste Disposal Methods: UNRECOVERABLE LIQUID AND CONTAMINATED DIKING MATERIAL SHOULD BE INCINERATED IN APPROVED EQUIPMENT OR DISPOSED OF AT A LICENSED LANDFILL

IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions: LOW TEMPERATURE STORAGE - INCREASES THE VISCOSITY OF THESE OILS, THESE OILS WILL STOP POURING AT 18 TO 30C.

Other Precautions: USE PRODUCT WITH CAUTION AROUND OPEN FLAMES, HEAT, SPARKS, PILOT LIGHTS AND STATIC ELECTRICITY.

=====

## Fire and Explosion Hazard Information

=====

Flash Point Method: COC

Flash

Point Text: 410-440F  
Extinguishing Media: CO2 OR DRY CHEMICAL OR WATER FOG OR FOAM  
Fire Fighting Procedures: WEAR MESA/NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS AND EYE PROTECTION. (SHEDULE 13) USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.  
Unusual Fire/Explosion Hazard: NONE

=====  
Control Measures

=====  
Respiratory Protection: USE SUPPLIED - AIR RESPIRATOR  
Y PROTECTION IN CONFINED  
OR ENCLOSED SPACES IF NEEDED.  
Ventilation: USE LOCAL EXHAUST TO CAPTURE VAPOR, MISTS OR FUMES, IF NECESSARY.  
PROVIDE VENTILATION SUFFICIENT TO PREVENT EXCEEDING RECOMMENDED EXPOSURE LIMIT OR BUILDUP.  
Protective Gloves: USE CHEMICAL-RESISTANT GLOVES TO AVOID PROLONGED OR REPEATED SKIN CONTACT.  
Eye Protection: USE SPLASH GOGGLES OR FACE SHIELD WHEN EYE CONTACT MAY OCCUR.  
Other Protective Equipment: EYEWASH FACILITY.  
Work Hygienic Practices: MINIMIZE BREATHING VAPOR, MIST OR FUMES. REMOVE CONTAMINATED CLOTHING AND LAUNDER OR DRY CLEAN BEFORE RE-USE. OIL SOAKED SHOES SHOULD BE DISCARDED. NO SMOKING OR USE OF FLAME OR IGNITION SOURCES.  
Supplemental Safety and Health: BRAND NAME: IMPERIAL 2075TH. PRODUCT: HYDRUALIC FLUID, PETROLEUM BASE ISO 32. MILITARY SPECS: MIL-PRF-17672D & AM 3.  
QUALIFICATION #: 634-D-346.

=====  
Physical/Chemical Properties

=====  
HCC: V6  
Boiling Point: =290.6C, 555.F  
B.P. Text: IBP  
Melt/Freeze Pt: &lt;-30.C, -22.F  
Vapor Pres: 0.01 MM HG @ 20C  
Vapor Density: &gt;5 (AIR=1)  
Spec Gravity: .876  
Appearance and Odor: STRAW TO AMBER COLOR - NO ODOR

=====  
Reactivity Data

=====  
Stability Indicator: YES  
Stability Condition To Avoid: THIS PRODUCT IS STABLE AND WILL NOT REACT VIOLENTLY WITH WATER.  
Materials To Avoid: AVOID CONT

ACT WITH STRONG OXIDANTS SUCH AS SULFUR AND  
NITROGEN COMPOUNDS, CARBON MONOXIDE, CARBON DIOXIDE, ETC., AS THIS PRESENTS  
SERIOUS BURNING.

Hazardous Polymerization Indicator: NO  
Conditions To Avoid Polymerization: WILL NOT OCCUR.

=====  
Toxicological Information  
=====

=====  
Other Information  
=====

=  
Other Information: " EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND  
CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, BRAZE, SOLDER, DRILL, GRIND, WELD  
OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF  
IGNITION. DO NOT ATTEMPT TO CLEAN SINCE THE CONTAINERS SHOULD BE DISPOSED OF  
IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULATIONS.

=====  
Transportation Information  
=====

=====  
Responsible Party Code: 58563  
Trans ID NO: 158001  
Product ID: HYDRAULIC FLUID, PETROLEUM BASE ISO 32  
MSDS Prepared Date: 05/15/2000  
Review Date: 07/26/2001  
MFN: 2  
Net Unit Weight: 36.5 LBS  
Multiple KIT Number: 0  
Review IND: Y  
Unit Of Issue: CN  
Container QTY: K  
Type Of Container: CAN

=====  
Detail DOT Information  
=====

DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

=====  
Detail IMO Information  
=====

IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

=====  
Detail IATA Information  
=====

IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TR

TRANSPORTATION

Detail AFI Information

AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

HAZCOM Label

Product ID: HYDRAULIC FLUID, PETROLEUM BASE ISO 32

Cage: 58563

Company Name: IMPERIAL OIL CO INC

Street: FOOT OF ORCHARD PL

PO Box: 279

City: MORGANVILLE NJ

Zipcode: 07751

Health Emergency Phone: 732-591-9400

Label Required IND: Y

Date Of Label Review: 07/26/2001

Status Code: A

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: Slight

Fire Hazard: Slight

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: SKIN, RESPIRATORY TRACT. ACUTE EFFECTS:  
MILDLY IRRITATING TO SKIN. INHALATION OF VA

PORS (GENERATED AT HIGH

TEMPERATURES ONLY) OR OIL MIST FROM THIS PRODUCT MAY CAUSE MILD IRRITATION TO  
THE RESPIRATORY TRACT. MINIMALLY IRRITATING TO EYES.

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, states, or intends said information to hav

e any application, use or

viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular

ar situation regardless of similarity to a corresponding Department of Defense or other government situation.