

STANDARD OIL CO OF OHIO -- X-232, HYDRAULIC OIL -- 9150-00-162-8385

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Product Identification  
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Product ID: X-232, HYDRAULIC OIL

MSDS Date: 04/01/1986

FSC: 9150

NIIN: 00-162-8385

MSDS Number: BKBVY

=== Responsible Party ===

Company Name: STANDARD OIL CO OF OHIO

Address: 200 PUBLIC SQ

City: CLEVELAND

State: OH

ZIP: 44114-2375

Country: US

Info Phone Num: 800-321-8642/216-586-8024

Emergency Phone Num: 80

0-321-8642/800-362-8059(OHIO)

Preparer's Name: R. K. RIGNEY

CAGE: 82250

=== Contractor Identification ===

Company Name: BP OIL COMPANY

Address: 200 PUBLIC SQ

Box: City: CLEVELAND

State: OH

ZIP: 44114-2375

Country: US

Phone: 216-586-8023

CAGE: 82250

Company Name: HYDRONIC CORP (313-477-2288)

CAGE: 12017

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Composition/Information on Ingredients  
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Ingred Name: KEROSENE (ALIPHATIC PETROLEUM SOLVENT)

CAS: 8008-20-6

RTECS #: OA5500000

Fraction by Wt: 80-90%

Other REC Limits: NONE SPECIFIED

Ingred Name:PETROLEUM OIL (DISTILLATE (PETROLEUM) SOLVENT REFINED LIGHT  
PARAFFINIC)  
CAS:64741-89-5  
RTECS #:PY8041500  
Fraction by Wt: 10-20%  
Other REC Limits:NONE SPECIFIED

Ingred Name:MIXTURE OF PETROLEUM HYDROCARBON AND SELECTED ADDITIVES  
(SUCH AS ANTIFOAM,ANTIRUST,DEMULSIFYING AGENT)  
Other REC Limits:NONE SPECIFIED

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO  
OSHA:NO

Health Hazards Acute and Chronic:ACUTE: MAY CAUSE IRRITATION TO SKIN,  
EYES, AND RESPIRATORY TRACT. INGESTION: MAY LEAD TO VOMITING,  
NAUSEA, HEADACHE, DIARRHEA. CHRONIC: REPEATED AND PROLONGED SKIN  
CONTACT MAY CAUSE DERMATITIS.

Explanation of Carcinogenicity:THE COMPONENTS OF THIS PRODUCT HAVE NOT  
SHOWN ANY EVIDENCE OF BEING CARCINOGENIC.

Effects of Overexposure:INHALATION:OVEREXPOSURE MAY LEAD TO RESPIRATORY  
IRRITATION. INGESTION:MAY CAUSE NAUSEA,VOMITING,AND DIARRHEA  
AND

POSSIBLY UNCONSCIOUSNESS. EYES:CAUSES MILD IRRITATION.VAPORS MAY  
CAUSE TEARS/IRRITATION . SKIN:COMPONENTS ARE UNLIKELY TO BE  
ABSORBED THROUGH SKIN IN HARMFUL CONCENTRATION BUT MAY CAUSE  
IRRITATION.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDER SHOULD USE CAUTION WHEN HANDLING OR USING THIS PRODUCT.

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===== First Aid Measures =====  
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First Aid:SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER.

GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: REMOVE TO  
FRESH AIR & RESTORE BREATHING IF NECESSARY. GET MEDICAL ATTENTION.  
EYE : IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING  
EYELIDS OPEN. GET MEDICAL ATTENTION. INGESTION: GET IMMEDIATE  
MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NOTHING BY MOUTH IF  
UNCONSCIOUS.

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===== Fire Fighting Measures =====  
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Flash Point Method:TCC  
Flash Point:140F,60C  
Lower Limits:0.7  
Upper Lim

its:5.0

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.RUNOFF TO SEWER MAY CAUSE FIRE OR EXPLOSION HAZARD.CONTAINERS MAY EXPLODE IN HEAT.

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

Spill Release Procedures:REMOVE IGNITION SOURCES.USE PROTECTIVE GEARS. SMALL SPILL:ABSORB WITH RAGS,CLAY AND PLACE IN CLOSED DOT DRUMS. LARGE SPILL:CONTAIN BY DIKING WITH CLAY,VERMICULITE,OR SIMILAR ABSORBENT MATERIAL.PUMP LI Q TO SALVAGE TANK.PLACE ABSORBED WASTE IN DOT DRUM

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

Handling and Storage Precautions:STORE IN A COOL, VENTILATED WORK AREA. KEEP CONTAINERS CLOSED WHEN NOT IN USE.AVOID PHYSICAL DAMAGE TO CONTAINERS.AVOID SKIN AND CLOTHING CONTACT.

Other Precautions:THE SELECTION OF PERSONAL PROTECTIVE EQUIPMENT SHOULD BE MADE BY THE MATERIAL USER BASED ON THE PARTICULAR CONDITIONS WHERE THE MATERIAL IS TO BE USED TOGETHER WITH INFORMATION CONTAINED IN THIS MSDS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IN CONFINED SPACES OR WHEN NEEDED, USE NIOSH APPROVED RESPIRATOR. AIR-SUPPLIED OR FILTERING TYPE WITH ORGANIC VAPOR CARTRIDGES ARE RECOMMENDED.

Ventilation:LOCAL AND MECHANICAL EXHAUST RECOMMENDED.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GOGGLES/GLASSES.

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:DO NOT TAKE INTERNALLY. AVOID SKIN CONTACT.

WASH SKIN AFTER USING PRODUCT. DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

Supplemental Safety and Health

NON-SPECIFICATION ITEM.PER DLSC-TIR,ITEM IS SOLE S

SOURCE UNDER

P/N:ENERGOL HLP-2,CAGE 8225(SOHIO); AND P/N:X-232,CAGE  
12017,(HYDRONIC CORP). DURING 80'S HYDRONIC CORP SUPPLIED THE ITEM  
BUT FURNISHED MS DS OF SOHIO'S PRODUCT ENERGOL HLP-2. THIS ENTRY IS  
ACTUALLY OF ENERGO HLP-2 FOR X-232 UNDER HYDRONIC CORP.

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

HCC:F4

Boiling Pt:>310.C, 590.F

Vapor Pres:0.5MMHG

Vapor Density:>1 AIR=1

Spec Gravity:0.825

Viscosity:1.8-2.7 CST

Evaporation Rate & Reference: