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MSDS Safety Information
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MSDS Date: 04/04/1999
MSDS Num: CKNFY
Product ID: HYDRAULIC OILS AW ISO 32, CPS255674
MFN: 01
Responsible Party
Cage: 2H740
Name: CHEVRON PRODUCTS COMPANY
Address: 555 MARKET STREET, ROOM 803
City: SAN FRANCISCO CA 94105-2870
Info Phone Number: 800-582-3835
Emergency Phone Number: 800-231-0623
Resp. Party Other MSDS No.: 7457, REVISION #1
Chemtrec IND/Phone: (800)424-9300
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 2H740
Name: CHEVRON PRODUCTS COMPANY GLOBAL LUBRICANTS
Address: 555 MARKET STREET, ROOM 803
City: SAN FRANCISCO CA 94105-2870
Phone: 800-582-3835

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Ingredients
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Name: LUBRICATING BASE OIL SEVERELY REFINED PETROLEUM DISTILLATE (MIXTURE OF
INGREDIENTS 2-12)
> Wt: 98.

Cas: 64741-88-4
RTECS #: PY8040501
Name: MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (SEVERE) HEAVY
PARAFFINIC

Cas: 64741-89-5
RTECS #: PY8041501
Name: MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (SEVERE) LIGHT
PARAFFINIC

Cas: 64741-96-4
RTECS #: PY8040001
Name: MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (SEVERE) HEAVY
NAPHTHENIC

Cas: 64741-97-5
RTECS #: PY8041001
Name: MINERAL OIL, PETROLEUM DISTILLATES SOLVENT-REFINED (SEVERE) LIGHT
NAPHTHENIC

Cas: 64742-01-4
Name: RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED

Cas: 64742-52-5
RTECS #: PY8035001
Name: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (SEVERE) HEAVY
NAPHTHENIC

Cas: 64742-53-6
RTECS #: PY8036001
Name: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (SEVERE) LIGHT
NAPHTHENIC

Cas: 64742-54-7
RTECS #: PY8035501
Name: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (SEVERE) HEAVY
PARAFFINIC

Cas: 64742-62-7
Name: RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED

Cas: 64742-65-0
RTECS #: PY8038501
Name: MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HEAVY PARAFFINIC
(SEVERE SOLVENT-REFINING AND/OR HYDROTREATMENT)

Cas: 72623-83-7
Name: LUBRICATING OILS (PETROLEUM), C>25, HYDROTREATED BRIGHT STOCK-BASED

Name: ADDITIVES (INCLUDING IN THE FOLLOWING)
< Wt: 2.

Cas: 68649-42-3
Name: ZINC ALKYL DITHIOPHOSPHATE
< Wt: 1.

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Health Hazards Data
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Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO

Effects of Exposure: EYE: NOT EXPECTED TO CAUSE PROLONGED OR SIGNIFICANT EYE IRRITATION. SKIN: CONTACT WITH THE SKIN IS NOT EXPECTED TO CAUSE PROLONGED OR SIGNIFICANT IRRITATION. NOT EXPECTED TO BE HARMFUL TO INTERNAL ORGANS IF ABSORBED THROUGH THE SKIN. HIGH-PRESSURE EQUIPMENT INFORMATION: ACCIDENTAL HIGH-VELOCITY INJECTION UNDER THE SKIN OF MATERIALS OF THIS TYPE MAY RESULT IN SERIOUS INJURY. SEEK MEDICAL ATTENTION AT ONCE SHOULD AN ACCIDENT LIKE THIS OCCUR. THE INITIAL WOUND AT THE INJECTION SITE MAY NOT APPEAR TO BE SERIOUS AT FIRST; BUT, IF LEFT UNTREATED, COULD RESULT IN DISFIGUREMENT OR AMPUTATION OF THE AFFECTED PART. (EFFECTS OF OVEREXPOSURE)

Explanation Of Carcinogenicity: TOX INFO: CARCIN TO HUMANS (GROUP 1), PROBABLY CARCIN TO HUMANS (GROUP 2A)/POSSIBLY CARCIN TO HUMANS (GROUP 2B). THIS PRODUCT CONTAINS ZINC ALKYL DITHIOPHOSPHATE (ZDDPS). SEVERAL ZDDPS HAVE BEEN REPORTED TO HAVE WEAK MUTAGENIC ACTIVITY IN CULTURED MAMMALIAN CELLS BUT ONLY AT CONCENTRATIONS THAT WERE TOXIC TO TEST CELLS. (NEUTRAL AGENT)

Signs And Symptoms Of Overexposure: HEALTH HAZARD: INGESTION: NOT EXPECTED TO BE HARMFUL IF SWALLOWED. INHALATION: CONTAINS A PETROLEUM-BASED MINERAL OIL.

MAY CAUSE RESPIRATORY IRRITATION OR OTHER PULMONARY EFFECTS FOLLOWING PROLONGED OR REPEATED INHALATION OF OIL MIST AT AIRBORNE LEVELS ABOVE THE RECOMMENDED MINERAL OIL MIST EXPOSURE LIMIT.

Medical Cond Aggravated By Exposure: VENT: AIRBORNE LEVELS BELOW THE RECOMMENDED MINERAL OIL MIST EXPOSURE LIMITS.

First Aid: EYE: NO SPECIFIC FIRST AID MEASURES ARE REQD BECAUSE THIS MATL IS NOT EXPECTED TO CAUSE EYE IRRIT. AS PREC REMOVE CONTACT LENSES, IF WORN, & FLUSH EYES W/H*20 FOR AT LEAST 15 MIN. SKIN: NO SPECIFIC FIRST AID MEASURES ARE REQD BECAUSE THIS M ATL IS NOT EXPECTED TO BE HARMFUL IF IT CONTACTS SKIN. AS PREC, REMOVE CLTHG & SHOES IF CONTAMD. USE WATERLESS HAND CLEANER, MINERAL OIL/PETROLEUM JELLY TO REMOVE MATL. THEN WASH SKIN W/SOAP & H*20. WASH/CLEAN CONTAMD CLTHNG & SHOES BEFORE REUSE.

INGEST: NO SPECIFIC FIRST AID MEASURES ARE REQD BECAUSE THIS MATL IS NOT EXPECTED TO BE HARMFUL IF SWALLOWED. (SUPDAT)

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Handling and Disposal
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Spill Release Procedures: CHEMTREC EMER NUMBER (24 HR): (800) 424-9300 OR (703)527-3887 INTERNATIONAL COLLECT CALLS ACCEPTED. STOP SOURCE OF LEAK/RELS.CLEAN UP RELS AS SOON AS POSSIBLE, OBSERVING PRECS IN EXPOS CONTROLS/PERS PROT. CNTN LIQ TO PVNT FURTHER CONTAM O F SOIL, SURFACE WATER/GROUNDWATER.CLEAN UP SMALL SPILLS USING APPROP TECHNIQUES SUCH AS SORBENT MATLS/PUMPING.WHERE FEASIBLE & APPROP, REMOVE (OTHER INFO)

Neutralizing Agent: EXPLAN OF CARCIN: MFR DO NOT BELIEVE THAT THERE IS ANY MUTAGENIC RISK TO WORKERS EXPOSED TO ZDDPS.

Waste Disposal Methods: OIL COLLECTION SERVICES ARE AVAILABLE FOR USED OIL RECYCLING OR DISPOSAL. PLACE CONTAMINATED MATERIALS IN CONTAINERS AND DISPOSE OF IN A MANNER CONSISTENT WITH APPLICABLE REGULATIONS. CONTACT YOUR SALES RESPRESENTATIVE OR LOCAL ENVIRONMENTA L OR HEALTH AUTHORITIES FOR APPROVED DISPOSAL OR RECYCLING METHODS.

Handling And Storage Precautions: DO NOT USE IN HIGH PRESS SYS IN VICINITY OF FLAMES, SPARKS & HOT SURF. USE ONLY IN WELL VENT AREAS. KEEP CNTNR CLSD. CNTNR IS NOT DESIGNED TO CONTAIN PRESS. DO NOT USE PRESS TO EMPTY CNTNR/IT MAY RUPTURE W/EXPLOSIVE FORCE. EMPTY CNTNRS RETA IN PROD RESIDUES (SOLID, LIQ, &/VAP) & CAN BE DANGEROUS.

Other Precautions: DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL,GRIND/EXPOSE SUCH CNTNRS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY/OTHERSOURCES OF IGNITION. THEY MAY EXPLODE & CAUSE INJURY/DEATH. EMPTY CNTNRSSHOULD BE COMPLETELY DRAINED, PROPERLY CL SD, & PROMPTLY RETURNED TO DRUMRECONDITIONER/PROPERLY DISP OF. (HYGIENE PRACT)

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Fire and Explosion Hazard Information
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Flash Point Method: COC

Flash Point: =150.C, 302.F

Extinguishing Media: CO*2, DRY CHEMICAL, FOAM, WATER FOG.

Fire Fighting Procedures: USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). THIS MATL WILL BURN ALTHOUGH IT IS NOT EASILY IGNITED. SPECIAL NOTES: LEAKS/RUPTURES IN HIGH PRESSURE SYSTEMS USING MATERIALS OF THIS TYPE CAN CREATE FIRE HAZARD WHEN IN VICINITY O F IGNITION SOUCES (EG. OPEN FLAME, PILOT LIGHTS, SPARKS/ELECTRIC ARCS).

Unusual Fire/Explosion Hazard: COMBUSTION PROD: NORM COMBUSTION FORMS CARBON DIOXIDE & H*2O VAP; INCOMPLETE COMBUSTION CAN PRDCE CARBON MONOXIDE. NFPA RATINGS: HLTH 0; FLAMMABILITY 1; REACTIVITY 0. RATINGS: HLTH 1;

FLAMMABILITY

1; REACTIVITY 0. FIRE CLASSIFICATION: CLASSIFICATION(29 CFR 1910.1200). NOT CLASSIFIED BY OSHA AS FLAMMABLE/COMBUST.

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Control Measures
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Respiratory Protection: NO RESP PROT IS NORMALLY REQUIRED. IF USER OPERATIONS GENERATE OIL MIST, DETERMINE IF AIRBORNE CONCENTRATIONS ARE BELOW RECOMMENDED MINERAL OIL MIST EXPOSURE LIMITS. IF NOT WEAR NIOSH APPROVED RESPIRATOR THAT PROVIDES ADEQUATE PROTECTION FROM MEASURED CONCENTRATIONS OF THIS MATERIAL. USE FOLLOWING ELEMENTS FOR AIR-PURIFYING RESPIRATORS: PARTICULATE.

Ventilation: USE IN WELL-VENT AREA. IF USER OPERATIONS GENERATE OIL MIST, USE PROCESS ENCLOSURES, LOC EXHST VENT/OTHER ENGINEERING CONTROLS TO CONTROL (MED CNDTNS)

Protective Gloves: NITRILE, SILVER SHIELD, VITON GLOVES.

Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

Other Protective Equipment: EYE WASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N). FOR A COMPLETE LISTING OF INFORMATION CONTACT NEHC (FP N).

Work Hygienic Practices: OTHER PREC: AVOID CONTAMINATING SOIL OR RELEASING THIS MATEIRAL INTO SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.

Supplemental Safety and Health: FIRST AID PROC: DO NOT INDUCE VOMIT. AS PREC, GIVE PERS GLASS OF H*2O OR MILK TO DRINK & GET MED ADVICE. NEVER GIVE ANYTHING BY MOUTH TO UNCON PERS. INHAL: IF EXPOSED TO EXCESSIVE LEVELS OF MATL IN AIR, MOVE EXPOSED PERS TO FRESH AIR. GET M ED ATTN IF COUGHING/ RESP DISCOMFORT OCCURS. (OTHER INFO)

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Physical/Chemical Properties
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Vapor Pres: NA

Vapor Density: NA

Spec Gravity: 0.86-0.88 @ 15.6/15.6C

Viscosity: 22-61.2 CST @ 40C (MIN)

Evaporation Rate & Reference: NA

Solubility in Water: OTHER INFO

Appearance and Odor: PALE YELLOW LIQUID.

Percent Volatiles by Volume: NA

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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: NO DATA AVAILABLE.

Materials To Avoid: MAY REACT WITH STRONG OXIDIZING AGENTS, SUCH AS CHLORATES, NITRATES, PEROXIDES, ETC.

Hazardous Decomposition Products: NO DATA AVAILABLE.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: POLYMERIZATION WILL NOT OCCUR.

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Toxicological Information
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Toxicological Information: EYE: IRRIT HAZ IS BASED ON DATA FROM SIMILAR MATL. SKIN: IRRIT HAZ IS BASED ON DATA FOR SIMILAR MATL. ACUTE INGEST: ACUTE INGEST TOX IS BASED ON DATA FOR SIMILAR MATL. ACUTE INHAL: ACUTE RESP TOX IS BASED ON DATA FOR SIMILAR MATL. ADDITI ONAL TOXIC INFO: THIS PROD CONTAINS PETROLEUM BASE OILS WHICH MAY BE REFINED BY VARIOUS PROCESSES INCLUDING SEV SOLVENT EXTRACTION, SEV HYDROCRACKING/SEV HYDROTREATING. NONE OF OILS REQUIRES CANCER WARNING UNDER OSHA HAZ COMMUNICATION STAN DARD (29 CFR 1910.1200). THESE OILS HAVE NOT BEEN LISTED IN NTP ANNUAL REPORT NOR HAVE THEY BEEN CLASSIFIED BY IARC AS; (EXPLAN OF CARCIN)

Ecological Information

Ecological: ECOTOXICITY: THIS MATERIAL IS NOT EXPECTED TO BE HARMFUL TO ADEQUATE ORGANISMS. ENVIRONMENTAL FATE: THIS MATERIAL IS NOT EXPECTED TO BE READILY BIODEGRADABLE.

MSDS Transport Information

Transport Information: THE DESCRIPTION SHOWN MAY NOT APPLY TO ALL SHIPPING SITUATIONS. CONSULT 49CFR, OR APPROPRIATE DANGEROUS GOOD REGULATIONS, FOR ADDITIONAL DESCRIPTION REQUIREMENTS (E.G., TECHNICAL NAME) AND MODE-SPECIFIC OR QUANTITY-SPECIFIC SHIPPING REQUIREMENTS. DOT SHIPPING NAME, DOT HAZARD CLASS, DOT IDENTIFICATION NUMBER: NONE. DOT PACKING GROUP: N/A. ADDITIONAL INFO: PETROLEUM LUBRICATING OIL-NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS-NOT APPLICABLE.

Regulatory Information

Sara Title III Information: SARA 311 CATEGORIES: 1. IMMEDIATE (ACUTE) HEALTH EFFECTS: NO. 2. DELAYED (CHRONIC) HEALTH EFFECTS: NO. 3. FIRE HAZARD: NO. 4. SUDDEN RELEASE OF PRESSURE HAZARD: NO. 5. REACTIVITY HAZARD: NO.
Federal Regulatory Information: ALL COMPONENTS OF THIS MATL ARE ON TOXIC SUBSTANCES CONTROL ACT CHEMICAL SUBSTANCES INVENTORY. FOLLOWING COMPONENTS OF THIS MATERIAL ARE FOUND ON REGULATORY LISTS INDICATED: PHOSPHORODITHIOIC ACID, O,O-DI-C1-C14 ALKYL ESTERS, ZINC SALTS IN FOUND ON LISTS: NJ RTK. SEVERELY REFINED PETROLEUM DISTILLATE IS FOUND ON LISTS: ACGIH TWA, ACGIH STEL, OSHA PEL. EU RISK AND SAFETY LABEL PHRASES: MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. W CLASSIFICATION: THIS PR ODUCT IS NOT CONSIDERED A CONTROLLED PRODUCT ACCORDING TO THE CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS.
State Regulatory Information: NEW JERSEY RTK CLASSIFICATION: UNDER THE NEW JERSEY RIGHT-TO-KNOW ACT L. 1983 CHAPTER 315 N.J.S.A.34:5A-1 ET. SEQ., THE PRODUCT IS TO BE IDENTIFIED AS FOLLOWS: PETROLEUM OIL.

Other Information

Other Information: SUPDAT: NOTE TO MD: IN ACCIDENT INVOLVING HIGH-PRESS EQUIP, THIS PROD MAY BE INJECTED UNDER SKIN. SUCH ACCIDENT MAY RSLT IN SMALL, SOMETIMES BLOODLESS, PUNCTURE WOUND. HOWEVER, BECAUSE OF ITS DRIVING FORCE, MATL INJECTED INTO FINGERTIP CAN BE DEPOSITED INTO PALM OF HAND. W/IN 24 HRS, THERE IS USUALLY GREAT DEAL OF SWELLING, DISCOLORATION, & INTENSE THROBING PAIN. IMMED TREATMENT AT SURGICAL EMER CENTER IS REC. SPILL PROC: CONTAMD SOIL. FOLLOW PRESCRIBED PROC FOR REPORTING & RESPONDING TO LRG RELS. PHYSICAL DATA: SOL IN H*2O: SOLUBLE IN HYDROCARBON SOLVENTS; INSOLUBLE IN WATER. VOC: <2.2 (WT%); 19 G/L (ESTIMATED).

HAZCOM Label

Product ID: HYDRAULIC OILS AW ISO 32, CPS255674
Cage: 2H740
Company Name: CHEVRON PRODUCTS COMPANY GLOBAL LUBRICANTS
Street: 555 MARKET STREET, ROOM 803
City: SAN FRANCISCO CA
Zipcode: 94105-2870
Health Emergency Phone: 800-231-0623
Label Required IND: Y
Date Of Label Review: 06/06/2000

Status Code: A
Origination Code: F
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: ACUTE: EYE: NOT EXPECTED TO CAUSE PROLONGED OR SIGNIFICANT EYE IRRITATION. SKIN: CONTACT WITH THE SKIN IS NOT EXPECTED TO CAUSE PROLONGED OR SIGNIFICANT IRRITATION. NOT EXPECTED TO BE HARMFUL TO INTERNAL ORGANS IF ABSORBED THROUGH THE SKIN. ACCIDENTAL HIGH-VELOCITY INJECTION UNDER THE SKIN MAY RESULT IN SERIOUS INJURY. COULD RESULT IN DISFIGUREMENT OR AMPUTATION OF THE AFFECTED PART. INGESTION: NOT EXPECTED TO BE HARMFUL. INHALATION: MAY CAUSE RESPIRATORY IRRITATION OR OTHER PULMONARY EFFECTS FOLLOWING PROLONGED/REPEATED INHALATION OF OIL MIST ABOVE RECOMMEND EXPOSURE LIMITS. CHRONIC: NONE SPECIFIED BY MANUFACTURER (FP N).

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