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 PRODUCT: HYDRAULIC & JACK OIL EMERGENCY PHONE NOS.  
 MANUFACTURER: STA-LUBE, INC. MEDICAL: 213/664-2121  
 (L.A. POISON CENTER 24 HR NO.)  
 ADDRESS: 3039 ANA STREET CHEMTREC: 800/424-9300  
 RANCHO DOMINGUEZ, CALIFORNIA 90221 BUSINESS: 213/537-5650  
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SECTION I - MATERIAL IDENTIFICATION

TRADE NAME: HYDRAULIC & JACK OIL PRODUCT CODE: AB7A070  
 CO. PRODUCT NOS. 2552 - 2559  
 GENERIC NAME: INDUSTRIAL OIL, PETROLEUM BASED #001 (SRPN) MSDS CODE NO.: A254PAB7A070  
 CHEMICAL NAME: HEAVY PETROLEUM DISTILLATE BASED MIXTURE CAS REGISTRY NO.: NOT REG.  
 SYNONYMS: HYDRAULIC OIL NIOSH REGISTRY NO.: NOT REG.  
 CHEMICAL FAMILY: HIGH M.W. PETROLEUM HYDROCARBONS; CHEMICAL ADDITIVES CHEMICAL FORMULA: COMPLEX MIXTURE/  
 HIGH M.W. HYDROCARBONS + ADDITIVES

SECTION II - HAZARD IDENTIFICATION

HEALTH/PHYSICAL HAZARDS: INDUSTRIAL OILS ARE COMPLEX LIQUID, PETROLEUM OR SYNTHETIC BASED MIXTURES, WHICH CONTAIN VARIOUS FUNCTIONAL COMPONENTS. THE MIXTURE OR ITS COMPONENTS DON'T USUALLY PRESENT A HEALTH RISK UNDER NORMAL CONDITIONS OF USE. PROLONGED CONTACT MAY IRRITATE THE SKIN. EXPOSURE TO MISTS OR TO FUMES WHICH MAY BE GENERATED AT HIGH TEMPERATURES MAY IRRITATE THE EYES AND UPPER RESPIRATORY TRACT.

HAZARD LISTING: OIL MIST (MINERAL) IS LISTED BY OSHA AND ACGIH AS AN IRRITANT.

OTHER: NEITHER THIS MATERIAL OR ITS COMPONENTS ARE REQUIRED TO BE REPORTED UNDER SARA TITLE III, SECTION 313.  
 TANKS, PIPES AND CONTAINERS RETAIN MATERIAL OR RESIDUE. FAILURE TO EXERCISE CAUTION DURING CLEANING, REPAIR, OR SAMPLING CAN BE HAZARDOUS AND LEAD TO INJURY. SEE SECTIONS V, VIII, AND X.

SECTION III - HAZARDOUS INGREDIENTS AND RECOMMENDED EXPOSURE LIMITS

HAZARDOUS INGREDIENTS CHEMICAL NAME	CAS REG. NO.	RECOMMENDED EXPOSURE LIMITS		
		LIMIT TYPE	AMOUNT	AGENCY*
1) SOLVENT REFINED PARAFFINIC DISTILLATES	64741-89-5 OR 64741-88-4	NO SPECIFIC LIMIT	ESTABLISHED	
USE OIL MIST (MINERAL) LIMIT	8012-95-1	8-HR TWA	5.0mg/m3	A,0(i)
2) SOLVENT REFINED NAPHTHENIC DISTILLATES	64741-96-4 OR 64741-97-5	NO SPECIFIC LIMIT	ESTABLISHED	
USE OIL MIST (MINERAL) LIMIT	8012-95-1	8-HR TWA	5.0mg/m3	A,0(i)

(i) APPLICABLE LIMIT IF MIST IS GENERATED.

\* A=ACGIH C=CAL/OSHA M=MSHA O=OSHA X=OTHER

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**SECTION IV - HEALTH HAZARD INFORMATION**

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GENERAL EFFECTS/EXPOSURE ROUTES: PROLONGED CONTACT MAY IRRITATE THE SKIN. EXPOSURE TO FUMES OR MISTS, IF GENERATED, MAY IRRITATE THE EYES AND UPPER RESPIRATORY TRACT. .  
PRIMARY ROUTES OF EXPOSURE ARE SKIN CONTACT AND INHALATION IF FUMES OR MISTS ARE GENERATED.

OCCULAR/EYE: THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT OR EXPOSURE TO MISTS OR TO FUMES WHICH MAY BE GENERATED AT HIGH TEMPERATURES MAY CAUSE BURNING, TEARING, AND REDNESS.

DERMAL/SKIN: THIS MATERIAL MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE BURNING, REDNESS, AND DERMATITIS.

INHALATION/BREATHING: EXPOSURE TO OIL MISTS OR TO FUMES WHICH MAY BE GENERATED AT HIGH TEMPERATURES MAY IRRITATE THE NOSE, THROAT AND UPPER RESPIRATORY TRACT.

INGESTION/SWALLOWING: ACCIDENTALLY SWALLOWING THIS MATERIAL CAN CAUSE IRRITATION OF THE STOMACH AND INTESTINAL TRACT.

CHRONIC/OTHER: NONE KNOWN FOR THIS MATERIAL OR ITS COMPONENTS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN CONDITIONS. PRE-EXISTING RESPIRATORY CONDITIONS IF MISTS OR FUMES ARE GENERATED.

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**SECTION V - SPECIAL HAZARDS/NON-ROUTINE OPERATIONS**

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HAZARDS/COMMENTS: CERTAIN OPERATIONS INCREASE THE POTENTIAL FOR EXPOSURE TO THIS MATERIAL. (SEE SECTION X). SOLVENTS, THINNERS, GASOLINES, OR KEROSENES SHOULD NOT BE USED TO REMOVE THIS MATERIAL FROM THE SKIN.

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**SECTION VI - EMERGENCY AND FIRST AID PROCEDURES**

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ATTENTION: IF VICTIM IS NOT BREATHING OR IF BREATHING DIFFICULTIES DEVELOP, ARTIFICIAL RESPIRATION OR OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL.

OCCULAR/EYE CONTACT: FLUSH THE AFFECTED EYE(S) WITH WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ASSISTANCE.

DERMAL/SKIN CONTACT: (SEE SECTION V). REMOVE CONTAMINATED CLOTHING AND WIPE MATERIAL FROM SKIN. THOROUGHLY WASH SKIN WITH SOAP AND WATER. USE A WATERLESS SKIN CLEANSER, IF NECESSARY. IF IRRITATION DEVELOPS AND PERSISTS, SEEK MEDICAL ASSISTANCE.

INHALATION/BREATHING: MOVE AWAY FROM EXPOSURE TO MISTS OR FUMES AND INTO FRESH AIR. IF SYMPTOMS OF EXPOSURE DEVELOP, SEEK MEDICAL ASSISTANCE.

INGESTION/SWALLOWING: IF VICTIM IS CONSCIOUS AND ALERT, GIVE MILK OR WATER TO DRINK. SEEK MEDICAL ASSISTANCE.

COMMENTS/PHYSICIAN INFORMATION: THIS MATERIAL IS A COMPLEX LIQUID PETROLEUM HYDROCARBON BASED MIXTURE WITH A LOW ORDER OF ACUTE TOXICITY.

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**SECTION VII - CHEMICAL REACTIVITY INFORMATION**

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STABILITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

REACTIVITY: REACTS WITH STRONG OXIDIZING AGENTS.

INCOMPATABILITY: INCOMPATIBLE WITH STRONG OXIDIZING AGENTS.

HAZARDOUS REACTION/DECOMPOSITION PRODUCTS: BURNING PRODUCES CARBON DIOXIDE, CARBON MONOXIDE AND POSSIBLE TRACE AMOUNTS OF OXIDES OF SULFUR AND NITROGEN.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: THIS MATERIAL DOES NOT POLYMERIZE.

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**SECTION VIII - FIRE AND EXPLOSION HAZARD INFORMATION**

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NFPA RATING: HEALTH 1      FLAMABILITY 1      REACTIVITY 0  
FLASH POINT (METHOD): >400 F/COC      FIRE PT./AUTOIGNITION TEMP (F): >400 F  
FLAMMABLE LIMITS (% BY VOLUME/AIR): LOWER: NO DATA      UPPER: NO DATA

FIRE/EXPLOSION HAZARDS: THIS MATERIAL CAN IGNITE AND BURN WHEN HEATED ABOVE ITS FLASH POINT. EMPTY TANKS OR CONTAINERS RETAIN MATERIAL RESIDUE AND MAY, IF HEATED, GENERATE VAPORS WHICH CAN IGNITE OR EXPLODE.

COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE AND WATER VAPOR. TRACE AMOUNTS OF OXIDES OF SULFUR AND NITROGEN.

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM, AND WATER SPRAY. WATER SPRAY OR FOAM MAY CAUSE FROTHING.

FIRE FIGHTING PROCEDURES: WEAR PROTECTIVE EQUIPMENT AND CLOTHING WHEN FIGHTING FIRES. USE A SELF-CONTAINED BREATHING APPARATUS FOR FIRE IN ENCLOSED SPACES. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS, DILUTE AND DISPERSE VAPORS, PROTECT PERSONNEL, AND TO FLUSH UNIGNITED MATERIAL SPILLS AWAY FROM FIRE.

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**SECTION IX - PERSONAL PROTECTION AND ENGINEERING CONTROLS**

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EYE AND FACIAL PROTECTION: CHEMICAL GOGGLES ARE RECOMMENDED TO PREVENT EYE CONTACT.

SKIN PROTECTION: PROTECTIVE GLOVES AND CLOTHING ARE RECOMMENDED TO PREVENT SKIN CONTACT. BARRIER CREAMS SPECIFIC FOR PETROLEUM-BASED MATERIALS MAY BE USED WHEN GLOVES ARE IMPRACTICAL.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION MAY BE NECESSARY TO MINIMIZE EXPOSURE TO MISTS OR FUMES. WEAR A NIOSH-APPROVED PARTICULATE RESPIRATOR IN SITUATIONS WHERE MIST CONCENTRATIONS MAY EXCEED RECOMMENDED EXPOSURE LIMITS. USE SELF-CONTAINED SUPPLIED-AIR RESPIRATORS FOR EMERGENCIES.

VENTILATION: GENERAL MECHANICAL VENTILATION OR LOCAL EXHAUST IS RECOMMENDED TO MAINTAIN MIST OR FUME CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS.

OTHER: AN EYE WASH AND A SOURCE OF RUNNING WATER SHOULD BE AVAILABLE TO FLUSH OR WASH THE EYES AND SKIN.

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## SECTION X - STORAGE AND HANDLING DURING ROUTINE AND NON-ROUTINE OPERATIONS

ROUTINE OPERATIONS: USE IN A WELL-VENTILATED AREA AND WEAR RECOMMENDED PROTECTIVE CLOTHING AND EQUIPMENT. AVOID BREATHING MISTS OR FUMES GENERATED WHEN THIS MATERIAL IS HEATED OR BURNED. AVOID PROLONGED SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. CLEAN OR LAUNDER CONTAMINATED SHOES AND CLOTHING BEFORE REUSE. LABEL ALL UNATTENDED CONTAINERS.

NON-ROUTINE OPERATIONS: OPERATIONS SUCH AS MAINTENANCE, REPAIR, CLEAN-UP, OR SAMPLING INCREASE THE POTENTIAL FOR EXPOSURE TO THIS MATERIAL. PERSONNEL INVOLVED IN THESE TYPES OF OPERATIONS SHOULD WEAR PROTECTIVE EQUIPMENT AND CLOTHING AND EXERCISE SPECIAL PRECAUTIONS TO AVOID EXPOSURE.

STORAGE: STORE IN CLOSED CONTAINERS IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAT AND STRONG OXIDIZING AGENTS. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

MISUSE OF EMPTY CONTAINERS CAN BE HAZARDOUS. COMPLETELY DRAIN AND COMMERCIALY CLEAN BEFORE REUSE. KEEP CLOSED AND DO NOT USE TO STORE OR MIX OTHER MATERIALS BEFORE HAVING COMMERCIALY CLEANED. DO NOT CUT, WELD, DRILL, OR EXPOSE TO HEAT OR FLAME. VAPORS MAY BE HAZARDOUS.

## SECTION X1 - SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL OR LEAK PROCEDURES: WEAR RECOMMENDED PROTECTIVE CLOTHING AND EQUIPMENT AND PROVIDE ADEQUATE VENTILATION. DO NOT ALLOW SPILLS TO ENTER SEWERS, STREAMS OR SURFACE WATERS. DIKE AND CONTAIN SPILLS. PICK UP LARGE SPILLS FOR LATER RECLAMATION AND DISPOSAL. USE AN INERT ABSORBENT TO PICK UP RESIDUE OR SMALL SPILLS AND COLLECT FOR LATER DISPOSAL.

DISPOSAL PROCEDURES: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. EMPTY TANKS AND CONTAINERS SHOULD BE COMMERCIALY CLEANED AND RECONDITIONED BEFORE REUSE.

## SECTION X11 - PHYSICAL DESCRIPTION AND PROPERTIES

DESCRIPTION: A LIGHT AMBER COLORED OILY LIQUID WITH A FAINT PETROLEUM ODOR.

MELTING POINT:	NA	SOLUBILITY (WATER):	NEGLIGIBLE
BOILING POINT/RANGE:	> 600 DEG F	pH:	NA
VAPOR PRESSURE:	NEGLIGIBLE	SPECIFIC GRAVITY:	0.85-0.95
% VOLATILE BY VOL:	NEGLIGIBLE	API GRAVITY:	18-35
VAPOR DENSITY:	HEAVIER THAN AIR	VISCOSITY:	> 100 SUS @ 100F
EVAPORATION RATE:	NEGLIGIBLE	OTHER:	NONE

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PREPARED BY: D.C. MARKIE  
APPROVED BY: D.C. MARKIE *Dem*

DATE: 07/18/89  
DATE: 07/21/89

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