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UNION OIL CO OF CALIFORNIA UNOCAL CHEMICALS DIV -- 11135 LACTOL SPIRITS

6810-00-238-8119

============= Product Identification =================

Product ID:11135 LACTOL SPIRITS

MSDS Date:12/08/1993

FSC:6810

NIIN:00-238-8119

MSDS Number: BWSDN === Responsible Party ===

Company Name: UNION OIL CO OF CALIFORNIA UNOCAL CHEMICALS DIV

Address:1201 W 5TH ST

Box:60455

City:LOS ANGELES

State:CA ZIP:90060 Country:US Info Pho

ne Num:213-977-7589 OR 800-967-7601

Emergency Phone Num:800-424-9300(CHEMTREC)/503-641-3222

CAGE:23034

=== Contractor Identification === Company Name:76 PRODUCTS CO

Address:1201 W 5TH ST Box:City:LOS ANGELES

State:CA ZIP:90017 Country:US

Phone:213-977-7589

CAGE:23034

Company Name: HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609 City:WICHITA State:KS ZIP:67219 Country:US

Phone:316-838-4663

CAGE:0A9L8

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

Ingred Name: CYCLOHEXANE (

SARA III) CAS:110-82-7

RTECS #:GU6300000 Fraction by Wt: 1-3%

Other REC Limits: NONE SPECIFIED

OSHA PEL:300 PPM ACGIH TLV:300 PPM, 9192 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: N-HEPTANE

CAS:142-82-5

RTECS #:MI7700000

Other REC Limits:NONE SPECIFIED OSHA PEL:500 PPM/500 STEL ACGIH TLV:400 PPM/500STEL;9293

Ingred Name: METHYLCYCLOHEXANE

CAS:108-87-2

RTECS #:GV6125000

Other REC Limits: NONE SPECIFIED

OSHA PEL:500 PPM

ACGIH TLV:400 PPM; 9293

Ingred Name:TOLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000 Fraction by Wt: 10-18%

Other REC Limits: NONE SPECIFIED

OSHA PEL:200 PPM/150 STEL ACGIH TLV:50 PPM; 9293 EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name: C6-C8 PARAFFINS AND CYCLOPARAFFINS

Other REC Limits:NONE SPECIFIED OSHA PEL:NONE ESTABLISHED ACGIH TLV:NONE ESTABLISHED

Ingred Name:SOLVENT NAPHTHA, LIGHT ALIPHATIC (VM & P NAPHTHA)

CAS:64742-89-8

Other REC Limits: NONE RECOMMENDED

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

Routes of Entry: Inh

alation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: CAUSES SKIN & EYE IRRITATION.
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS & CAUSE DAMAGE. LOW
TO MODERATE DEGREE OF TOXICITY IF INHALED. OR SWALLOWED. CHRONIC:
REPEATED & PROLONGED OCCUPATI ONAL OVEREXPOSURE TO SOLVENTS WITH
PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATE

R IS LISTED AS A CARCINOGEN OR SUEPECTED CARCINOGEN.

Effects of Overexposure:EYES-IRRITATION, STINGING, WATERING, REDNESS, & SWEELING. SKIN-REDNESS, BURNING, DRYING & CRACKING OF SKIN. INHALED-HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, FATIGUE, IRRITATION OF NOSE/T HROAT. INGESTED-IRRITATION OF GI TRACT, NAUSEA, VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN DISORDERS,RESPIRATORY (ASTHMA-LIKE) DISORDERS,KIDNEY DISORDERS,& LIVER.EXPOSU

RE MAY CAUSE IRREGULAR HEART BEATS; PERSONS WITH PRE-EXISTING HEART DISORDERS MAY BE MORE SUSCEPTIBLE.

First Aid:INHALATION-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION. EYE-FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING LID OPEN. GET MEDICAL ATTENTION. SKIN-WASH WITH S OAP & WATER. REMOVE CONTAMINATED CLOTHING. INGESTION-IF CONSCIOUS & ALERT, INDUCE VOMITING UNDER

DIRECTION OF DOCTOR OR

POISON CONTROL CENTER. GET MEDICAL ATTENTION IMMEDIATELY.

Flash Point Method:TCC Flash Point:20.0F,-6.7C

Autoignition Temp: Autoignition Temp Text: 580F

Lower Limits:1.0 Upper Limits:7.0

Extinguishing Media:DRY CHEMICALS, CARBON DIOXIDE, FOAM, HALON. WATER MAY BE AN INEFFECTIVE EXTINGUISHING AGENT.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREAT

- HING APPARATUS. ISOLATE DAMAGE AREA, DENY ENTRY. STOP SPILL IF MINIMAL RISK.
- Unusual Fire/Explosion Hazard:MATERIAL IS FLAMMABLE, MAY TRAVEL TO DISTANT SOURCE OF IGNITION & FLASHBACK. VAPORS ARE HEAVIER THAN AIR AND MAY COLLECT IN LOW AREAS.

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

- Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION. USE NON-SPARKING TOOLS. ISOLATE & DENY ENTRY. WEAR PROPER PROTECTIVE GEAR. PREVENT SPILL FROM ENTERING SEWER
- S, WATERWAYS. ABSORB ONTO APPROPRIATE ABSORBANT MATERIAL. NOTIFY USCG AT 800-424-8802 IF ENTERS WATERWAYS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

- Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTIALTED PLACE AWAY FROM SOURCES OF IGNITION & INCOMPATIBLE MATERIALS. OPEN CONTAINER SLOWLY.
- Other Precautions:BOND & GROUND VESSELS DURING TRANSFERS. DO NOT ENTER CONFINED SPACES WITHOUT
- FOLLOWING ENTRY PROCEDURES IN ASTM D-4276 & 29CFR1910.146. "EMPTY" CONTAINERS RETAIN RESIDUES. DO NOT PRESSURIZE, CUT, WELD, ETC. THEY MAY EXPLODE, CAUSING INJURY.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.13 4 AND MANUFACTURER'S

RECOMMENDATIONS.

Ventilation: USE ADEQUATE EXPLOSION-PROOF MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: IMPERVIOUS-NITRILE, BUTYL, VITON.

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.

- Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. IMPERVIOUS CLOTHING TO PREVENT REPEATED/PROLONGED SKIN CONTACT.
- Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEF

ORE REUSE. Supplemental Safety and Health TARGET ORGANS: CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, HEARING. INTENTIONAL MISUSE BY DELIBERATLEY CONCENTRATING & INHALING THIS MATERIAL MAY BE HARMFUL/FATAL. EPA/CERCLA RQ'S: RQ #1-TOLUENE, 1000 LB E QUAL TO 5556 LBS (890 GALLONS THIS MATERIAL); RQ #2-CYCLOHEXANE, 1000 LB EQUAL TO 33333 LB (5342 GALLONS THIS MATERIAL).
========= Physical/Chemical Properties ==========
HCC:F2 Boiling Pt:B.P. Text:201F.94C

Vapor Pr

es:25

Vapor Density:3.4 Spec Gravity:0.746 Viscosity:0.68 CST

Evaporation Rate & Reference: 3.9 (N-BUTYL ACETATE=1)

Solubility in Water: NEGLIGIBLE

Appearance and Odor:WATER WHITE LIQUID; LIGHT HYDROCARBON ODOR

Percent Volatiles by Volume:100

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS AND REDUCING AGENTS. Stability Condition to Avoid:ALL POSSIBLE SOURCES OF IGNITION. AVOID EXPSOURE TO INCOMPATIBLE MATERIALS.

Hazardous Decomposition Products: CARBON MONOXIDE & CARBON DIOXIDE. Conditions to Avoid Polymerization: WILL NOT OCCUR.

====== Disposal Considerations ===========

Waste Disposal Methods:RCRA WASTE NUMBERS D001 AND D018 MAY APPLY IF UNUSED/UNCONTAMINATED. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. SARA 313-TOLUENE, CAS# 108-88-3, 10-18%; CYCLOHEXANE, CAS# 110- 82-7, 1-3%.

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