

UNION OIL CO OF CALIFORNIA UNOCAL CHEMICALS DIV -- 2006 LACTOL SPIRITS --
6810-00-238-8119

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

Product ID:2006 LACTOL SPIRITS

MSDS Date:11/28/1995

FSC:6810

NIIN:00-238-8119

MSDS Number: BZJDR

=== 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 Phone

Num:213-977-7589

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
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
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:V M & P NAPHTHA
CAS:64742-89-8
Other REC Limits:NONE SPECIFIED

Ingred Name:C6-C8 PARAFFINS AND CYCLO-PARAFFINS (LISTED W/"OTHER
COMPONENTS" RATHER THAN W/"HAZARDOUS COMPONENTS").
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED
Routes of Entry: Inhalation:YES Skin:

YES Ingestion:YES

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

Health Hazards Acute and Chronic:ACUTE-EYE:IRRITANT. SKIN:IRRITANT.

INHALATION:LOW TO MODERATE DEGREE OF TOXICITY. INGESTION:LOW TO MODERATE DEGREE OF TOXICITY. CAN ENTER LUNGS DURING SWALLOWING OR VOMITING & CAUSE LUNG INFLAMMATION & DAMAGE. TOLUENE MAY CAUSE LIVER OR KIDNEY DAMAGE. PROLONGED &/OR REPEATED OVEREXPOSURE MAY CAUSE CNS DAMAGE.

Explanation of Carcinogenicity:INADEQUATE EVIDENCE AVAILABLE TO

EVALUATE THE CANCER HAZARD OF THIS MATERIAL. NO INDIVIDUAL INGREDIENTS ARE CARCINOGENS.

Effects of Overexposure:EYES:IRRITATION, STINGING, WATERING, REDNESS, & SWEELING. SKIN:REDNESS, BURNING, DRYING, CRACKING, DAMAGE.

INHALATION:RESPIRATORY IRRITATION, HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, FATIGUE, IRRITATION OF NOSE/THROAT.

INGESTED:IRRITATION OF G/I TRACT, NAUSEA, VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure:CONDITIONS AGGRAVATED BY EXPOSURE

MAY INCLUDE SKIN DISORDERS, RESPIRATORY DISORDERS, KIDNEY DISORDERS & LIVER DISORDERS.

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===== First Aid Measures =====

First Aid:IF ANY IRRITATION PERSISTS OR SEVERE, GET MEDICAL ATTENTION.

EYE:FLUSH W/WATER FOR 15 MIN. SKIN:WASH W/SOAP & WATER. REMOVE CONTAMINATED CLOTHING & LAUNDER BEFORE REUSE. INHALED:REMOVE FROM CONTAMINATED AREA. AID OR RESTORE BREATHING AS NEEDED.

INGESTED:GET EMERGENCY MEDICAL ATTENTION. IF CONSCIOUS &

ALERT,

INDUCE VOMITING W/SYRUP OF IPECAC. IF DROWSY OR UNCONSCIOUS, POSITION TO PREVENT ASPIRATION

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===== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:20.0F,-6.7C

Autoignition Temp:Autoignition Temp Text:580F

Lower Limits:1

Upper Limits:7

Extinguishing Media:DRY CHEMICALS, CARBON DIOXIDE, FOAM, HALON. WATER

MAY BE INEFFECTIVE EXTINGUISHING AGENT, USE IT TO COOL CONTAINERS.

Fire Fighting Procedures:WEAR BUNKER GEAR & SCBA PLUS OTHE

R GEAR AS

CONDITIONS WARRENT. ISOLATE DAMAGE AREA. STOP SPILL/RELEASE IF W/MINIMAL RISK. MOVE CONTAINERS FROM DANGER AREA.

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. CONTAINERS MAY EXPLODE.

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

Spill Release Procedures:ELIMINATE IGNITION SOURCES. USE EXPLOSION PROOF EQUIPMENT. ISOLATE & DENY ENTRY. WEAR PROPER PROTECTIVE GEAR.

PREVENT SPILL FROM ENTERING SEWERS, WATERWAYS. ABSORB ONTO APPROPRIATE ABSORBANT MATERIAL. NOTIFY USCG (800-424-8802) IF WATERS ARE ENTERED.

Neutralizing Agent:MFR GAVE NO INFORMATION OF MSDS.

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

Handling and Storage Precautions:KEEP TIGHTLY CLOSED. USE & STORE IN COOL, DRY, WELL VENTILATED AREA FREE FROM IGNITION SORCES. STORE ONLY IN APPROVED CONTAINERS. PROTECT FROM DAM AGE.

Other Precautions:OUTDOOR STORAGE IS PREFERRED. INDOOR STORAGE MUST MEET OSHA STANDARDS.

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

Respiratory Protection:USE RESPIRATORY PROTECTION WHEN CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS. USE RESPIRATOR W/APPROPRIATE CARTRIDGE (NIOSH APPROVED IF AVAILABLE) OR SUPPLIED AIR EQUIPMENT.

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

Protective Gloves:IMPERMEABLE GLOVES

Eye Protection:APPROVED EYE PROTECTION RECOMMENDED

Other Protective Equipment:EYE WASH STATION & QUICK DRENCH SAFETY SHOWER. WEAR IMPERVIOUS CLOTHING. LAUNDER/CLEAN CONTAMINATED CLOTHING/SHOES.

Work Hygienic Practices:MFR:? HMIS:USE GOOD INDUSTRIAL HYGIENE PRACTICES. MINIMIZE CONTACT & WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health
NONE

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

HCC:F2

NRC/State L

ic Num:NONE
Boiling Pt:=94.C, 201.2F
Vapor Pres:25 MM
Vapor Density:3.4
Spec Gravity:0.745
VOC Pounds/Gallon:745
Viscosity:0.68 CST
Evaporation Rate & Reference:3.9 (N-BUTYL ACETATE=1)
Solubility in Water:0.02%
Appearance and Odor:WATER WHITE LIQUID; LIGHT HYDROCARBON ODOR
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
AVOID CONTACT W/STRONG OXIDIZING AGENTS AND REDUCING AGENTS.
Stability Condit
ion to Avoid:STABLE UNDER NORMAL CONDITIONS. FLAMMABLE
LIQUID & VAPOR. VAPOR CAN CAUSE FLASH FIRE. AVOID ALL IGNITION
SOURCES.
Hazardous Decomposition Products:COMBUSTION CAN YIELD CARBON MONOXIDE &
CARBON DIOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF I/A/W FEDERAL, STATE & LOCAL
REGULATIONS. RCRA NUMBERS D001 & D018 IF IN ORIGINAL FORM. CONSULT
STATE & LOCAL
REGULATIONS MAY BE MORE RESTRICTIVE; CONSULT THEM FOR
PROPER DISPOSAL OF THIS MATERIAL.

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

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