

UNOCAL CHEMICALS DIV UNION OIL CO OF CALIFORNIA -- 2006 LACTOL SPIRITS --  
6810-00-238-8117

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

Product ID:2006 LACTOL SPIRITS

MSDS Date:10/14/1994

FSC:6810

NIIN:00-238-8117

MSDS Number: BZPFV

=== Responsible Party ===

Company Name:UNOCAL CHEMICALS DIV UNION OIL CO OF CALIFORNIA

Address:1345 N MEACHAM RD

City:SCHAUMBURG

State:IL

ZIP:60195

Country:US

Info Phone Num:80

0-967-7601

Emergency Phone Num:800-967-7601/800-424-9300(CHEMTREC)

CAGE:5W323

=== Contractor Identification ===

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

Company Name:JEM SALES INC INCHEMCO DIV

Address:430 LAVENDER DR

Box:City:ROME

State:GA

ZIP:30165-2262

Country:US

Phone:706-232-1709

CAGE:0AZD7

Company Name:UNOCAL CHEMICALS DIV UNION OIL CO OF CALIFORNIA

Address:1345 N MEACHAM RD

Box:City:SCHAUMBURG



DED  
OSHA PEL:300 PPM  
ACGIH TLV:300 PPM, 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:C6-C8 PARAFFINS AND CYCLO-PARAFFINS  
Other REC Limits:NONE RECOMMENDED

Ingred Name:BENZENE (SARA 313) (CERCLA)  
CAS:71-43-2  
RTECS #:CY1400000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1028  
ACGIH TLV:10 PPM; A2; 9596  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry:

Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE: INHALATION MAY CAUSE IRRITATION OF NOSE & THROAT, CNS DEPRESSION. INGESTION MAY CAUSE IRRITATION OF GI TRACT. ASPIRATION MAY CAUSE LUNG DAMAGE. CONTACT MAY CAUSE SKIN & EYE IRRITATION. CHRONIC: INADEQUATE DATA AVAILABLE FOR THIS MATERIAL. PROLONGED & REPEATED EXPSOURE TO SOLVENTS HAS CAUSE BRAIN & CNS DAMAGE.

Explanation of Carcinogenicity

:CONTAINS B [71-43-2] WHICH IS

LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

Effects of Overexposure:EYES-STINGING, WATERING, REDNESS, SWELLING.

SKIN-REDNESS, BURNING, DRYING & CRACKING OF SKIN.

INHALED-IRRITATION OF NOSE & THROAT, HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, FATIGUE. INGES TED-NAUSEA, VOMITING, DIARRHEA.

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

EXPOSURES TO HIGH CONCENTRATIONS MAY CAUSE IRREGULAR HEATBEATS (ARRHYTHMIAS)-PREEXISTING HEAT DISORDERS AFFECTED.

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

First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-REMOVE FROM EXPSOURE. FLUSH WITH WATER FOR 15 MINUTES. HOLD LIDS OPEN. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH MILD SOAP & WATER. INHALED-REMOVE TO FRESH A IR. ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. INGESTED-IF CONSCIOUS, GI VE SYRUP OF IPECAC & INDUCE VOMITING. CONTACT POISON CONTROL CENTER & OBTAIN IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method:TCC  
Flash Point:=-6.7C, 20.F  
Autoignition Temp:=-304.4C, 580.F  
Lower Limits:1  
Upper Limits:7  
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM, HALON. WATER MAY BE INEFFECTIVE FOR EXTINGUISHMENT.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEAR. USE WATER TO COOL FIRE EXPOSED CONTAINERS.  
Unusual Fire/Explosion Hazard:FLAMMABLE! VAPORS MAY TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION WHERE THEY CAN IGNITE, FLASHBACK OR EXPLODE. VAPORS ARE HEAVIER THAN AIR.

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

Spill Release Procedures:FLAMMABLE. ELIMINATE ALL SOURCES OF IGNITION. USE EXPLOSION-PROOF EQUIPMENT. STAY UPWIND. ISOALTE & DENY ENTRY. WEAR APPROPRIATE PERSONAL PROTETC IVE GEAR. ABSORB WITH INERT MATERIAL AND PLACE IN A CON TAINER. KEEP OUT OF WATERWAYS & SEWERS.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM HEAT, DIRECT SUNLIGHT, ALL SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS. PROTECT FROM PHYSICAL DAMAGE.  
Other Precautions:OUTDOOR OR DETACHED STORAGE IS PREFERRED. INDOOR STORAGE WILL MEET OSHA ST

ANDARDS AND APPROPRIATE FIRE CODES.

"EMPTY" CONTAINERS SHOULD BE DRAINED & PROPERLY BUNGED AND PROMPTLY SENT TO A RECONDITIONER OR DISPOSED OF.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

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

Protective Gloves:PVA, BUTYL, VITON.

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. IMPERVIOUS CLOTHING RECOMMENDED (SEE GLOVES).

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health  
MSDS PRESENTED BY CGAE 0A9L8 FOR  
CONTRACT NUMBER SP0450-96-ML530.

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

HCC:F2

Boiling Pt.=93.9C, 201.F

Vapor Pres: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, REDUCING AGENTS.

Stability Condition to Avoid:AVOID ALL POSSIBLE SOURCES OF IGNITION.

Hazardous Decomposition Products:CARBON MONOXIDE AND CARBON DIOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:RCRA HAZARDOUS WASTE IF DISCARDED IN ITS PRODUCED FORM. EPA HAZARDOUS WASTE NUMBER(S) D001 AND D018 APPLY. DISPOSE OF IAW LOCAL, STATE AND FEDERAL REGULATIONS.

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