

UNION OIL COMPANY OF CALIFORNIA -- LACTOL SPIRITS 2006 -- 6810-00-238-8117

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

Product ID:LACTOL SPIRITS 2006

MSDS Date:12/16/1996

FSC:6810

NIIN:00-238-8117

Status Code:A

MSDS Number: CJGPS

=== Responsible Party ===

Company Name:UNION OIL COMPANY OF CALIFORNIA

Address:1701 GOLF ROAD,SUITE 1-1101

City:ROLLING MEADOWS

State:IL

ZIP:60008-4295

Country:US

Info Phone Num:

800-967-7601

Emergency Phone Num:800-967-7601

CAGE:TO018

=== Contractor Identification ===

Company Name:CHEMCENTRAL

Address:1 ALCHEMY PLACE

Box:City:DORAVILLE

State:GA

ZIP:30346

Country:US

Phone:404-448-7123

CAGE:TO150

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

Contract Num:SP0450-99-M-C823

CAGE:0AZD7

Company Name:UNION OIL COMPANY OF CALIFORNIA

Address:1701 GOLF ROAD,SUITE 1-1101

Box:City:ROLLING MEADOWS



AND CYCLOPARAFFINS  
Other REC Limits:NONE RECOMMENDED

Ingred Name: BENZENE  
CAS: 71-43-2  
RTECS #: CY1400000  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: see 1910.1028  
ACGIH TLV: 32 MG/M3; 10 PPM  
EPA Rpt Qty: 10 LBS  
DOT Rpt Qty: 10 LBS

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

Routes of Entry: Inhalation: YES Skin: YES Ingestion: NO  
Reports of Carcinogenicity: NTP: YES IARC: YES OSHA: YES  
Health Hazards Acute and Chronic: TARGET ORGANS: CENTRAL NERVOUS SYSTEM,  
LIVER, KIDNEY  
AND SENSE OF HEARING. ACUTE - EYE: EYE IRRITANT.  
CONTACT MAY CAUSE STINGING, WATERING, REDNESS, AND SWELLING. SKIN:  
SKIN IRRITANT. CONTACT MAY CAUSE REDNESS, BURNING, DRYING AND  
CRACKING OF THE SKIN, AND SKIN DAMAGE. SKIN ABSORPTION IS SLIGHT.  
INGESTION: LOW TO MODERATE DEGREE OF TOXICITY BY INGESTION.  
ASPIRATION HAZARD - THIS MATERIAL CAN ENTER LUNGS DURING  
SWALLOWING OR VOMITING AND CAUSE LUNG INFLAMMATION AND DAMAGE.  
INHALATION: LOW TO MODERATE DEGREE OF TOXICITY BY INHALATION.  
CHRONIC - MAY CAUSE LIVER AND KIDNEYS EFFECTS, PERMANENT BRAIN AND  
NERVOUS SYSTEM DAMAGE.  
Explanation of Carcinogenicity: CONTAINS BENZENE.  
Effects of Overexposure: SEVERE IRRITATION, HEADACHE, DIZZINESS, NAUSEA,  
VOMITING, DROWSINESS, COMA, EYE REDNESS, TEARING, BLURRED VISION,  
SKIN CRACKING, DEFATTING, DRYING, UNCONSCIOUSNESS, WEAKNESS,  
PULMONARY EDEMA, FATIGUE, DIARRHEA  
Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN  
DISORDERS,  
EYE PROBLEMS, OR IMPAIRED CENTRAL NERVOUS SYSTEM, LIVER,  
KIDNEY, HEART, OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO  
THE EFFECTS OF THIS PRODUCT.

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

First Aid: INHALATION: MOVE VICTIM TO FRESH AIR. IF BREATHING IS  
DIFFICULT, PROVIDE OXYGEN. IF NOT BREATHING, BEGIN ARTIFICIAL  
RESPIRATION. SEEK MEDICAL ATTENTION. EYE: MOVE VICTIM TO FRESH  
AIR. FLUSH EYE WITH CLEAN WATER. FOR DIRECT CONTACT, HOLD EYELIDS

APART AND FLUSH AFFECTED EYE WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION. SKIN: FLUSH WITH PLENTY OF WATER. IF SKIN IS DAMAGED, APPLY A DRESSING AND SEEK MEDICAL ATTENTION. INGESTION: SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, PLACE INDIVIDUAL ON LEFT SIDE WITH HEAD DOWN. CONTACT A PHYSICIAN AT ONCE. IF CONSCIOUS AND LARGE AMOUNTS INGESTED, INDUCE VOMITING

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

Flash Point Method:TCC  
Flash Point:=-6.7C, 20.F  
Autoignition Temp:=-304.4C, 580.F  
Lower Limits:1.0  
Upper Limits:7.0  
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, SAND, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. CARBON DIOXIDE CAN DISPLACE OXYGEN. USE CAUTION IN CONFINED AREA.  
Fire Fighting Procedures:WEAR BUNKER GEAR AND SELF CONTAINED BREATHING APPARATUS IF FIRE BEYOND INCIPIENT STAGE. WEAR OTHER APPROPRIATE PROTECTIVE EQUIPMENT. ISOLATE DANGER AREA. USE WATER SPRAY TO MINIMIZE OR DISPERSE VAPORS . AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.  
Unusual Fire/Explosion Hazard:FLAMMABLE. VAPOR TRAVELS DISTANCES TO IGNITION SOURCE CAUSING IT TO IGNITE, FLASHBACK OR EXPLODE. VAPORS HEAVIER THAN AIR CAN ACCUMULATE IN LOW AREAS. IF CONTAINER IS NOT COOLED PROPERLY, IT CAN RUPTURE IN THE HEAT OF FIRE.

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

Spill Release Procedures:  
WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. STOP SPILL IF POSSIBLE WITHOUT RISK. BLANKET SPILL WITH ALCOHOL-TYPE AQUEOUS FILM-FORMING FOAM OR USE WATER SPRAY TO DISPERSE VAPORS. CONTAIN AND PICK UP WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND OR USE EXPLOSION-PROOF PUMP. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS, CONFINED SPACES. REPORT IF REQUIRED 800-424-8802.

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

Handling

and Storage Precautions:OPEN CONTAINER SLOWLY TO RELIEVE ANY PRESSURE. STORE IN COOL, VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. STORE IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION REGULATIONS. KEEP AWAY FROM IGNITION SOURCES, AND INCOMPATIBLES. CONTAINERS SHOULD BE BOUNDED AND GROUNDED FOR TRANSFERS.

Other Precautions:FLAMMABLE. EMPTY CONTAINERS RETAIN PRODUCT RESIDUES (VAPORS, LIQUID) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDE R OR DRILL. KEEP OUT OF REACH OF CHILDREN. AVOID BREATHING VAPORS. DO NOT GET IN EYE, ON SKIN OR ON CLOTHING. AVOID INGESTION. DESTROY CONTAMINATED LEATHER CLOTHING.

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

Respiratory Protection:NIOSH/MSHA AIR PURRIFYING RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE MAY BE USED IFAIRBORNE CONCENTRATION ARE EXPECTED TO EXCEED EXPOSURE LIMITS. USE POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR WHERE THERE IS POTENTIAL FOR UNCONTROLLED

RELEASE, PEL ARE N/KNOWN, OR OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATOR MAY NOT PROVIDE ADEQUATE PROTECTION.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED.

Eye Protection:APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT.

Other Protective Equipment:EYE-WASH AND QUICK DRENCH SHOWER FACILITIES SHOULD BE AVAIL ABLE IN WORK AREA.

Work Hygienic Practices:THOROUGHLY CLEAN SHOES AND WASH CONTAMINATED CLOTHING BEFORE REUSE. IT IS RECOMMENDED THAT IMPERVIOUS CLOTHING BE WORN.

Supplemental Safety and Health

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

HCC:F2

Boiling Pt:=93.9C, 201.F

B.P. Text:201-255F

Melt/Freeze Pt:M.P/F.P Text:NO DATA

Vapor Pres:25MMHG

Vapor Density:3.40 AIR=1

Spec Gravity:0.75 60F

VOC Pounds/Gallon:745

Viscosity:0.68CST

Evaporation Rate & Reference:3

.90 NBUAC=1

Solubility in Water:0.02 %

Appearance and Odor:WATER-SHITE LIQUID WITH LIGHT HYDROCARBON ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH STRONG OXIDIZING AGENTS AND REDUCING AGENTS.

Stability Condition to Avoid:FLAMM LIQUID AND VAPOR. VAPOR CAN CAUSE FLASH FIRE. AVOID ALL POSSIBLE SOURCES OF IGNITION (SEE FIRE FIGHTING & HANDLING AND STORAGE SECTIONS.)

Ha

Hazardous Decomposition Products:COMBUSTION CAN YIELD CARBON DIOXIDE AND CARBON MONOXIDE.

===== Toxicological Information =====

Toxicological Information:TOLUENE. TARGET ORGAN(S): INTENTIONAL MISUSE BY DELIBERATE INHALATION OF HIGH CONCENTRATIONS OF TOLUENE HAS BEEN SHOWN TO CAUSE LIVER, KIDNEY AND CENTRAL NERVOUS SYSTEM DAMAGE, INCLUDING HEARING LOSS AND VISUAL DISTURBANCES. DEVELOPMENTAL: EXPOSURE TO TOLUENE DURING PREGNANCY HAS DEMONSTRATED LIMITED

EVIDENCE OF DEVELOPMENTAL TOXICITY IN LABORATORY ANIMALS. THE EFFECTS SEEN INCLUDE DECREASED FETAL BODY WEIGHT AND INCREASED SKELETAL VARIATIONS IN BOTH INHALATION AND ORAL STUDIES.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. RCRA HAZARDOUS WASTE NUMBERS: D001 AND D015 (OR K005 IF SPENT) THIS WASTE IS SUBJECT TO LAND DISPOSAL RESTRICTIONS IN 40 CFR 268.40 AND MAY REQUIRE TREATMENT PRIOR TO DISPOSAL EMPTY DRUMS SHOULD BE RETURNED TO DISTRIBUTOR OR A DRUM RECONDITIONER.

===== Regulatory Information =====

SARA Title III Information:THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: TOLUENE AND CYCLOHEXANE  
Federal Regulatory

Information:EPA (CERCLA) REPORTABLE QUANTITY: RQ # 1  
TOLUENE 1000 LB EQUAL TO 5556 LB, (896 GAL), OF THIS MATERIAL. RQ  
# 2 CYCLOHEXANE 1000 LB EQUAL TO 33333 LB, (5376 GAL), OF THIS  
MATERIAL.

State Regulatory Information:THIS PRODUCT CONTAINS THE FOLLOWING  
CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE  
CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM, AND ARE SUBJECT  
TO THE REQUIREMENTS OF CALIFORNIA PR OPOSITION 65 (CA HEALTH &  
SAFETY CODE SECTION  
25249.5): BENZENE CANCER., TOLUENE  
DEVELOPMENTAL TOXICANT.

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