

UNOCAL CHEMICALS DIV UNION OIL CO OF CALIFORNIA -- 11135 LACTOL SPIRITS --  
6810-00-227-1302

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

Product ID:11135 LACTOL SPIRITS

MSDS Date:06/12/1990

FSC:6810

NIIN:00-227-1302

MSDS Number: BDKSN

=== Responsible Party ===

Company Name:UNOCAL CHEMICALS DIV UNION OIL CO OF CALIFORNIA

Address:1345 N MEACHAM RD

City:SCHAUMBURG

State:IL

ZIP:60196

Country:US

Info Phone Num:

800-438-2968

Emergency Phone Num:312-619-2644/800-356-3129

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:PHIPPS PRODUCTS CORP

Address:186 LINCOLN ST SUITE 502

Box:City:BOSTON

State:MA

ZIP:02111-2403

Country:US

Phone:OUT OF BUSINESS

CAGE:86511

Company Name:UNOCAL CHEMICALS DIV UNION OIL CO OF CALIFORNIA

Address:1345 N MEACHAM RD

Box:City:SCHAUMBURG

St

ate:IL  
ZIP:60195  
Country:US  
Phone:800-967-7601  
CAGE:5W323

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===== Composition/Information on Ingredients =====  
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Ingred Name:NAPHTHA, LIGHT ALIPHATIC  
CAS:64742-89-8  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:400 PPM  
ACGIH TLV:400 PPM

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: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:METHYLCYCLOHEXANE  
CAS:108-87-2  
RTECS #:GV6125000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:500 PPM  
ACGIH TLV:400 PPM; 9293

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:C6-C8 PARAFFINS AND CYCLO-PARAFFINS  
Other REC Limits:NONE SPECIFIED

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Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:UNKNOWN Ingestion:NO

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

Health Hazards Acute and Chronic:PRODUCT IS IRRITATING TO BODY TISSUES.

IT ALSO DEPRESSES THE CENTRAL NERVOUS SYSTEM. ONE INGREDIENT (TOLUENE) IS KNOWN TO DAMAGE LIVER,KIDNEY,BRAIN DAMAGE WHEN DELIBERATELY INHALED. PROLONGED/REPEATED OVEREXPOSURE MAY CAUSE SOLVENT (PAINTER'S) SYNDROME. ASPIRATION DURING INGESTION/VOMITIN

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MAY CAUSE LUNG DAMAGE.

Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYES:

IRRITATION,STINGING,TEARING,REDNESS,SWELLING. SKIN:

IRRITATION,REDNESS,BURNING,DRYING,CRACKING. INHALATION: HIGH CONCENTRATIONS MAY CAUSE NOSE/THROAT

IRRITATION,HEADACHE,DROWSINESS,DIZZINESS,INC OORDINATION,FATIGUE.

INGESTION: EXCESSIVE AMOUNTS MAY CAUSE

IRRITATION,HEADACHE,DROWSINESS,DIZZINESS,

FATIGUE,DIARRHEA.

Medical Cond Aggravated by Exposure:PEOPLE SUFFERING FROM HEART DISORDERS, DERMATITIS OR PAINTER'S SYNDROME.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES.SEE DOCTOR. SKIN:

REMOVE CONTAMINATED CLOTHING.FLUSH WITH PLENTY OF WATER.IF

IRRITATION PERSISTS,SEE DOCTOR. INHALATION: REMOVE TO FRESH

AIR.GIVE OXYGEN/CPR IF NE EDED.SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING.IF DROWSY OR UNCONSC

IOUS,PLACE ON LEFT SIDE WITH HEAD

DOWN.DO NOT LEAVE UNATTENDED.SEE DOCTOR.

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

Flash Point Method:TCC

Flash Point:=-6.5C, 20.F

Lower Limits:1.0

Upper Limits:7.0

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, FOAM, WATER SPRAY.

WATER STREAM MAYBE INEFFECTIVE.

Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS.WATER

MAY BE USEFUL IN MINIMIZING VAPORS AND/OR COOLING FIRE EXPOSED

CONTAINERS.AVOID SPRE

ADING FIRE WITH WATER.

Unusual Fire/Explosion Hazard:VAPORS HEAVIER THAN AIR. CAN TRAVEL A LONG DISTANCE ALONG GROUND AND FLASHBACK.

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

Spill Release Procedures:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER. WEAR PROTECTIVE CLOTHING AND EQUIPMENT, VENTILATE AREA, ELIMINATE IGNITION SOURCES. ABSORB IN INERT MATERIAL. PLACE WASTE IN DOT APPROVED CONTAINER FOR DISPOS AL. FLUSH AREA WITH PLENTY OF WATER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM IGNITION SOURCES AND INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:EMPTY CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY SHIPPED TO THE S UPPLIER OR DRUM RECONDITIONER.

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

Respiratory Protection:IF AIRBORNE CONCENTRATIONS EXCEED ESTABLISHED EXPOSURE LIMITS, USE A SUPPLIED AIR RESPIRATOR. DO NOT USE A CHEMICAL CARTRIDGE RESPIRATOR.

Ventilation:MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST VENTILATION. USE EXPLOSION-PROOF EQUIPMENT.

Protective Gloves:PVA GLOVES

Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES.

Other Protective Equipment:SAFETY SHOWER AND EYE BATH. INDUSTRIAL TYPE WORK CLOTHING A

ND APRON AS REQUIRED TO AVOID PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

FORMER PRODUCT CODE WAS 1135. NOW, 11135. PRODUCT IS ALSO KNOWN AS AMSCO 1135.

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

HCC:F2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:201-225F

Vapor Pres:60 MM

Vapor Density:3.4

Spec Gravity:

0.746

Evaporation Rate & Reference:3.90 (BUTYL ACETATE = 1)

Solubility in Water: