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UNOCAL CHEMICALS DIV., UNION OIL OF CALIFORNIA -- 11135, LACTOL SPIRITS

6810-00-238-8119

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

Product ID:11135, LACTOL SPIRITS

MSDS Date:10/19/1991

FSC:6810

NIIN:00-238-8119

MSDS Number: BDMCN === Responsible Party ===

Company Name: UNOCAL CHEMICALS DIV., UNION OIL OF CALIFORNIA

Address:1345 N MEACHAM

City:SCHAUMBURG

State:IL ZIP:60196 Country:US

Info Phone Num:312-4 90-2500/312-619-2644

Emergency Phone Num:312-490-2500/800-424-9300(CHEMTREC)

CAGE:94684

=== Contractor Identification ===

Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX ZIP:77305 Country:US

Phone: 409-756-1065

CAGE:4N760

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 OF CALIFORNIA

Address:1345 N MEACHAM Box:City:SCHAUMBURG

State:IL ZIP:60196

Phone:312-490-2500/800-424-9300(CHEMTREC)

CAGE:94684

======= 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 BY M.

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 BY M.

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 BY M.

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 BY M.

OSHA PEL:200 PPM/150 STEL ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:100

0 LBS DOT Rpt Qty:1000 LBS

Ingred Name: C6-C8 PARAFFINS AND CYCLOPARAFFINS

Other REC Limits: NONE ESTABLISHED

OSHA PEL:NONE ESTABLISHED ACGIH TLV:NONE ESTABLISHED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-EYES/SKIN:IRRITATION.

INHALATION: IRRITATION TO THE RESPIRATORY TRACT, DIZZINESS,

HEADACHE, UNCONSCIOUSNESS. IN

GESTION: INTESTINAL DISORDERS, NAUSEA,

VOMITING; ASPIRATION INTO LUNGS MAY CAUSE CHEM ICAL PNEUMONITIS WHICH CAN BE FATAL. CHRONIC-DERMATITS, LIVER AND KIDNEY DAMAGE.

Effects of Overexposure:EYE-IRRIT,BURNING,TEARING,REDNESS. SKIN-

IRRIT;PROLONG/REPEAT CONTACT-REDNESS,BURNING,DRYING,CRACKING.

INHAL-TOXIC; IRRIT NOSE/THROAT; NERVOUS SYS

DEPRESS;DROWSINESS,DIZZ,LOSS OF COORDIN, FATIGUE. INGE ST-IRRIT OF DIGEST TRACT;NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:PRE-EX

ISTING SKIN CONDITIONS OR

HEART DISORDERS.

First Aid:INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED. EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL HELP. SKIN CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS PERSIS T. INGESTION:DO NOT INDUCE VOMITING, GET MEDICAL HELP IMMEDIATELY.

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

Flash Point Metho

d:TCC

Flash Point:20.0F,-6.7C

Lower Limits: 1.0 Upper Limits: 7.0

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

Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:FLASHBACK ALONG VAPOR TRAIL MAY OCCUR.
THIS MATL EXTREMELY FLAM-MAY BE IGNITED BY HEAT, SPARKS, FLAME OR
STATIC ELECTRICITY. CONTAINER MAY EXPLODE IN HEAT OF FIRE

====== Accidental Release Measures =========
Spill Release Procedures:STAY UPWIND FROM SPILL. REMOVE ALL IGNITION SOURCES. VENTILATE AREA. FOAM MAY BE USED TO SUPPRESS VAPORS. KEEP OUT OF DRAINS,SEWERS,WATERWAYS. RECOVER BY VACUUM OR ABSORB IN SAND/INERT MATLS AND TRANS FER TO DRUMS FOR DISPOSAL, COVER DRUMS. Neutralizing Agent:NONE
============== Handling and Storage ==============
Handling and Storage Precautions:KEEP CONTNRS CLOSED,COOL,DRY & AWAY F M SOURCES OF IGNIT.
Other Precautions:EMPTY CONTAAINERS MAY BE FIRE HAZARD. FOLLOW ANSI Z49.1 FOR CLEANING, REPAIRING, WELDING OR OTHER CONTEMPLATED OPNS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:IF AIRBORNE CONCENTRATION EXCEEDS TLV USE SUPPLIED AIR RESPIRATOR. DO NOT USE CHEMICAL CARTRIDGE RESPIRATOR. Ventilation:ADEQUATE TO MAINTAIN VAPOR CONC BELOW TLV. USE EXPLOSION-PROOF SYSTEMS IF REQ'D. Protective Gloves:IMPERVIOUS Eye Pr
otection:GOGGLES Other Protective Equipment:IMPERVIOUS CLOTHING AS NEEDED. EYEWASH. Work Hygienic Practices:DO NOT EAT, DRINK OR SMOKE WHILE WORKING WITH THIS PRODUCT. Supplemental Safety and Health
========== Physical/Chemical Properties ==========
HCC:F3 Boiling Pt:B.P. Text:201F,94C Vapor Pres:60 Vapor Density:3.4 Spec Gravity:0.746 Evaporation Rate & (N-BUTYL ACETATE=1) Solubility in Water: