

THE UNO-VEN COMPANY -- 02041000001, UNO-VEN HEXANE -- 6810-00-949-0257

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

Product ID:02041000001, UNO-VEN HEXANE

MSDS Date:01/16/1995

FSC:6810

NIIN:00-949-0257

Status Code:A

MSDS Number: CKVNB

=== Responsible Party ===

Company Name:THE UNO-VEN COMPANY

Address:3850 N. WILKE ROAD

City:ARLINGTON HEIGHTS

State:IL

ZIP:60004

Country:US

Info Phone Num:213-977-7589

Emergen

cy Phone Num:213-977-7589

Chemtrec Ind/Phone:(800)424-9300

CAGE:UO085

=== Contractor Identification ===

Company Name:ALLIANCE CHEMICAL INC

Address:3 OAKMOOR

Box:79

City:ROUND ROCK

State:TX

ZIP:78680

Country:US

Phone:512-365-6838

Contract Num:SP0450-00-M-SJ88

CAGE:1LT50

Company Name:THE UNO-VEN COMPANY

Address:3850 N. WILKE ROAD

Box:City:ARLINGTON HEIGHTS

State:IL

ZIP:60004

Country:US

Phone:213-977-7589

CAGE:UO085

Company Name:UNOCAL CORPORATION

Address:1201 WEST 5TH STREET

Box:City:LOS ANGELES

S

tate:CA
ZIP:90017
Country:US
Phone:UNK
CAGE:UO086

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Composition/Information on Ingredients
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Ingred Name:N-HEXANE
CAS:110-54-3
RTECS #:MN9275000
Other REC Limits:50 PPM OSHA TWA
OSHA PEL:1800 MG/M3;500 PPM
ACGIH TLV:50 PPM TWA
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:OTHER HEXANE ISOMERS CAS # VARIES.
OSHA PEL:500 PPM TWA
OSHA STEL:1000 PPM
ACGIH TLV:500 PPM TWA
ACGIH STEL:1000 PPM

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Hazards Identification
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LD50 LC50
Mixture:NONE PROVIDED BY MFR
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS: POTENTIAL HAZARD TO THE PERIPHERAL NERVOUS SYSTEM. ACUTE:- EYE: CONTACT MAY CAUSE MILD EYE IRRITATION INCLUDING STINGING, WATERING, & REDNESS. SKIN: CONTACT MAY CAUSE MILD SKIN IRRITATION INCLUDING REDNESS, BURNING, & DRYING & CRACKING OF THE SKIN. NO HARMFUL EFFECTS FROM SKIN ABSORPTION HAVE BEEN REPORTED. INHALATION (BREATHING): LOW DEGREE OF TOXICITY BY INHALATION. INGESTION (SW ALLOWING): LOW DEGREE OF TOXICITY BY INGESTION. ASPIRATION HAZARD - THIS MATERIAL CAN ENTER LUNGS DURING SWALLOWING OR VOMITING & CAUSE LUNG INFLAMMATION & DAMAGE.
Explanation of Carcinogenicity:COMMERCIAL HEXANE HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC, OR OSHA.
Effects of Overexposure:EFFECTS OF OVEREXPOSURE MAY INCLUDE IRRITATION OF THE NOSE & THROAT, IRRITATION OF THE DIGESTIVE TRACT, NAUSEA, SIGNS OF NERVOUS SYSTEM

DEPRESSION (E.G., HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, & FATIGUE), GIDDINESS & LOSS OF APPETITE.

Medical Cond Aggravated by Exposure: THIS MAY INCLUDE SKIN DISORDERS, RESPIRATORY (ASTHMA-LIKE) DISORDERS & PERIPHERAL NERVE DISORDERS, & PERSONS WITH PRE-EXISTING HEART DISORDERS MAY BE MORE SUSCEPTIBLE TO THIS EFFECT.

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

First Aid: EYE: MOVE VICTIM AWAY FROM TO FRESH AIR. FLUSH EYES WITH WATER

SKIN: REMOVE CONTAMINATED SHOES & CLOTHING & CLEANSE AFFECTED AREA(S) THOROUGHLY BY WASHING WITH MILD SOAP & WATER. IF IRRITATION OR REDNESS PERSISTS, SEEK MEDICAL ATTENTION. INHALATION: MOVE VICTIM TO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION AND PROVIDE OXYGEN IF NEEDED. SEEK MEDICAL HELP. INGESTION: ASPIRATION HAZARD. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH. PLACE VICTIM ON THE LEFT SIDE WITH HEAD DOWN, SEEK MEDICAL HELP.

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

Flash Point Method: TCC

Flash Point: -28.7C, -20.F

Autoignition Temp: 260.C, 500.F

Lower Limits: 1

Upper Limits: 8

Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, HALON, OR FOAM IS RECOMMENDED. WATER SPRAY IS RECOMMENDED TO COOL OR PROTECT EXPOSED MATERIALS OR STRUCTURES.

Fire Fighting Procedures: EMERGENCY RESPONDERS IN THE DANGER AREA SHOULD

WEAR BUNKER GEAR & SELF CONTAINED BREATHING APPARATUS FOR FIRES BEYOND THE INCIPIENT STATE (29CFR 1910.156). IN ADDITION, WEAR OTHER APPROPRIATE PROTECTIVE EQUIPMENT AS CONDITIONS WARRANT. ISOLATE DAMAGE AREA, KEEP UNAUTHORIZED PERSONNEL OUT.

Unusual Fire/Explosion Hazard: THIS MATERIAL IS EXTREMELY FLAMMABLE & CAN BE IGNITED BY HEAT, SPARKS, FLAMES, OR OTHER SOURCES OF IGNITION. VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY CAN

GNITE, FLA SHBACK, OR EXPLODE. CONTAINER
MAY EXPLODE IN THE HEAT OF FIRE.

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

Spill Release Procedures:EXTREMELY FLAMMABLE. KEEP ALL SOURCES OF
IGNITION & HOT METAL SURFACES AWAY FROM SPILL. USE EXPLOSION-PROOF
EQUIPMENT. STAY UPWIND & AWAY FROM SPILL. ISOLATE & KEEP
UNAUTHORIZED PERSONNEL OUT. STOP SP ILL/RELEASE IF IT CAN BE DONE
WITH MINIMAL RISK. WEAR PROTECTIVE EQUIPMENT. PREVENT SPILLED
MATERIAL FROM

SEWERS, STROM DRAINS & WATERWAYS. DIKE & COLLECT. USE
FOAM ON SPILLS TO MINIMIZE VAPORS.

Neutralizing Agent:NONE PROVIDED BY MFR.

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

Handling and Storage Precautions:HANDLING: OPEN CONTAINER SLOWLY TO
RELIEVE ANY PRESSURE. BOND & GROUND ALL EQUIPMENT WHEN TRANSFERRING
FROM ONE VESSEL TO ANOTHER. CAN ACCUMULATE STATIC CHARGE BY FLOW OR
AGITATION. VAPOR CAN BE IGNIT ED BY STATIC DISCHARGE. THE USE OF
EXPLOSION-P

ROOF EQUIPMENT IS RECOMMENDED.

Other Precautions:EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO
MATERIAL RESIDUE. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED,
PROPERLY BUNGED, & PROMPTLY RETURNED TO THE SUPPLIER OR SHIPPED TO
A DRUM RECONDINIONER.

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

Respiratory Protection:THE USE OF RESPIRATORY PROTECTION IS ADVISED
WHEN CONCENTRATIONS ARE EXPECTED TO EXCEED THE ESTABLISHED EXPOSURE
LIMITS. USE A RESPIRATOR

WITH APPROPRIATE CARTRIDGES (NIOSH
APPROVED, IF AVAILABLE) OR SUPPLIED-AIR EQUIPMENT EQUIPMENT..

Ventilation:EXPLOSIVE PROOF, ADDITIONAL VENTILATION OR EXHAUST SYSTEM
TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE
LIMITS.

Protective Gloves:GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED
IS ADVISED

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

Other Protective Equipment:IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER

BE AVAILABLE IN THE WORK AREA FOR FLUSHING EYES & SKIN. IMPERVIOUS CLOTHING SHOULD BE WORN AS NEEDED.

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

Supplemental Safety and Health
NONE PROVIDED BY MFR

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

HCC:F2

Boiling Pt:=65.6C, 150.F

B.P. Text:150 TO 157 DEG F

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

Decomp Temp:Decomp

Text:NONE PROVIDED BY MFR

Vapor Pres:140@20 DEG C & 760 MM HG

Vapor Density:3.0(AIR=1)

Spec Gravity:0.674

VOC Pounds/Gallon:674

Viscosity:0.51 CST

Evaporation Rate & Reference:8.1 (NBUAC=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:WATER-WHITE, LIQUID, LIGHT HYDROCARBON ODOR

Percent Volatiles by Volume:100%

Corrosion Rate:NONE PROVIDED BY MFR

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH STRONG OXIDIZING AGENTS & REDUCING AGENTS.

Stability Condition to Avoid:STABLE UNDER NORMAL CONDITIONS OF STORAGE & HANDLING. EXTREMELY FLAMMABLE LIQUID & VAPOR. VAPOR CAN CAUSE FLASH FIRE. AVOID ALL POSSIBLE SOURCES OF IGNITION.

Hazardous Decomposition Products:COMBUSTION CAN YIELD CARBON DIOXIDE & CARBON MONOXIDE

Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Toxicological Information:TWO YEAR INHALATION STUDIES WITH CO

COMMERCIAL

HEXANE AT 900, 3000, AND 9000 PPM PRODUCED A DOSE-RELATED INCREASE IN HEPATOCELLULAR NEOPLASMS IN FEMALE MICE. NO TREATMENT RELATED TUMORS WERE OBSERVED IN MALE MICE OR RATS OF FEMALE MICE. COMMERCIAL HEXANE HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC, OR OSHA.

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

Waste Disposal Methods:RCRA HAZARDOUS WASTE IF DISCARDED IN ITS PRODUCED FORM. EPA HAZARDOUS WASTE NUMBER(S) D001 & D018 (40 CFR 261.20-24). ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER & IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. ALL RINSATE SHOULD BE CONSIDERED RCRA HAZ WASTE.

===== MSDS Transport Information =====

Transport Information:DOT PSN: HEXANE, 3, UN1208, II.

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

SARA Title III Information:THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372:

N-HEXANE CAS# 110-54-3 45-50%. EPA REPORTABLE QUANTITY: NONE.

State Regulatory Information:CALIFORNIA PROPOSITION 65 - THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM: NONE KNOWN.

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

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