

UNION OIL CO OF CALIFORNIA UNOCAL CHEMICALS DIV -- UNOCAL 76 UNLEADED PLUS 87
GASOLINE,M/H GRADE,PROD#:00406. -- 9130-01-208-4172

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

Product ID:UNOCAL 76 UNLEADED PLUS 87 GASOLINE,M/H GRADE,PROD#:00406.

MSDS Date:11/11/1992

FSC:9130

NIIN:01-208-4172

MSDS Number: BVHJL

=== Responsible Party ===

Company Name:UNION OIL CO OF CALIFORNIA UNOCAL CHEMICALS DIV

Address:1201

W 5TH ST

Box:60455

City:LOS ANGELES

State:CA

ZIP:90060

Country:US

Info Phone Num:213-977-7589

Emergency Phone Num:800-424-9300(CHEMTREC)/800-356-3129

CAGE:23034

=== Contractor Identification ===

Company Name:76 PRODUCTS CO

Address:1201 W 5TH ST

Box:City:LOS ANGELES

State:CA

ZIP:90017

Country:US

Phone:213-977-7589

CAGE:23034

Company Name:UNION OIL CO OF CA UNION 76 DIV- WESTERN RGION

Address:1201 W 5TH ST

Box:7600

City:LOS ANGELES

State:CA

ZIP:90017-1443

Country:US

CAGE:79003

===== Com

position/Information on Ingredients =====

Ingred Name:GASOLINE
CAS:8006-61-9
RTECS #:LX3300000
Fraction by Wt: 85-100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:300 PPM
ACGIH TLV:300 PPM/500STEL;9394

Ingred Name:BENZENE (SARA III)
CAS:71-43-2
RTECS #:CY1400000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE 1910.1028
ACGIH TLV:10 PPM; A2; 9394
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:TOLUENE (SARA III)
CAS:108-88-3
RTECS #:XS5250000
Fraction by Wt: 1-1
5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM; Z-2
ACGIH TLV:S, 50 PPM; 9394
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)
CAS:1330-20-7
RTECS #:ZE2100000
Fraction by Wt: 1-21%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM
ACGIH TLV:100 PPM/150STEL;9394
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:HEXANE (N-HEXANE)
CAS:110-54-3
RTECS #:MN9275000
Fraction by Wt: 0-4%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:500 PPM
ACGIH TLV:

50 PPM; 9394
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ETHYL BENZENE (SARA III)
CAS:100-41-4
RTECS #:DA0700000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM
ACGIH TLV:100 PPM/125STEL;9394
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:METHYL TERT-BUTYL ETHER (SARA III)
CAS:1634-04-4
RTECS #:KN5250000
Fraction by Wt: 0-15%
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:1,2,4-TRIMETHYLBENZENE (SARA III)
CAS:95-63-6
RTECS #
:DC3325000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:25 PPM
ACGIH TLV:25 PPM; 9394

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:INGEST/INHAL:SLIGHTLY TOXIC.IRRIT OF
NOSE/THORAT/RESP TRACT,CNS DEPRESSION. IRRIT OF DIGESTIVE TRACT,
LUNG INFLAMMATION/DAMAGE IF ENTERS LUNGS. SKIN:MILD IRRIT.PROL/REP

REDNESS/BURNING/DYRING/CRACKING .EYE:IRRITANT;EXPOSURE TO HI CONCEN
MAYASSOC W/CARDIAC ARRHYTHMIAS.EPINEPHRINE/OTHER MAY INITIATE
CARDIA ARRHYTHMIAS.

Explanation of Carcinogenicity:CONTAINS BENZENE. UNLEADED GASOLINE &
GASOLINE ENGINE EXHAUST HAVE BEEN IDENTIFIED AS POSSIBLE
CARCINOGENS BY IARC.

Effects of Overexposure:INGEST:NAUSEA, VOMIT, BLURRED VISION, FLUSHING,
SIGNS OF NSC DEPRESSION, RESP FAILURE, CONVULSIONS, UNCONSC/DEATH.
INHAL:COUGHING, NAUSEA, SIGNS OF CN

S DEPRESSION

(HEADACHE,DROWSINESS,DIZZINESS,LOSS O F COORDINATION, FATIGUE),
SHORTNESS OF BREATH.EYE:STINGING, TEARING, REDNESS,SWELLING.

Medical Cond Aggravated by Exposure:PRE-EXITING SKIN & LUNG (E.G.
ASTHMA-LIKE CONDITIONS) DISORDERS. PRE-EXISTING HEART DISORDERS MAY
BE MORE SUSCEPTIBLE TO IRREG HEARTBEATS (ARRHYTHMIAS).

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

First Aid:EYE:MOVE TO FRESH AIR.FLUSH W/WATER FOR @ LEAST 15MINS
OPENING EYELIDS.G

ET MED ATTN.SKIN:WIPE EXCESS OFF.WASH W/MILD SOAP
& WATER OR WATERLESS SKIN CLEANSER.IRRIT/REDNESS DEVLPS/PERS GET
MED ATTN.INHA L:MOVE TO FRESH AIR.IF SYMP PERSIST GETIMMED MED
ATTN.NOT BREATH GIVE ART RESP.DIFF BREATH GIVE OXY.GET IMMED MED
ATTN.INGEST:POTENTIAL ASPIRATION HAZ.GET EMERG MED
ATTN.DROWSY/UNSCON PLACE (SUPPLE)

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

Flash Point Method:TCC

Flash Point:-45F,-43C

Extinguishing Media:DRY CHEMICAL, CA
RBN DIXOIDE, HALON, FOAM OR WATER

SPRAY IS RECOMMENDED. WATER MAY BE INEFFECTIVE.(NOTE:HALON IS A
ODS).

Fire Fighting Procedures:WEAR APPROPRIATE PROT EQPMT INCLUDING RESP
PROT AS CONDITION WARRANT.WATERSPRAY USEFUL IN MIN/DISPERS VAP/COOL
EQPMT EXPO TO HEAT/FLAME.AVOID SPREADING BURN LIQ

Unusual Fire/Explosion Hazard:EXTREMELY FLAMM.IGN BY
HEAT/SPARKS/ETC.VAP TRAVEL DISTANCES WHERE MAY IGN &
FLASHBACK/EXPLODE.VAP/AIR EXPLOSION HAZ INDOOR/OUTDOOR/SEWER.VAP
HEAVIER TH

AN AIR.

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

Spill Release Procedures:KEEP IGN SOURCES/HOT METAL SURFACES AWAY.STAY
UPWIND.ISOLATE AREA/STOP SPILL W/O RISK.WEAR APPROPRIATE PPE AS
CONDITIONS WARRANT.PREVENT FROM ENTERING SEWER/STORM DRAIN/ETC.IF
SO CALL NAT RESP CNTR 80 0-424-8802.DIKE/ABSORB INTO APPRO
ABSORBENT MATL.

Neutralizing Agent:NONE SPECIFIED BY MFG.

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

Handling and Stora

ge Precautions:KEEP CNTNR TIGHTLY CLOSED.OPEN SLOWLY
TO RELIEVE PRESSURE.USE/STORE IN COOL,DRY,WELL VENTILATED AREAS
AWAY FROM HEAT/DIRECT SUNLIGHT/HOT METAL SUR/ETC

Other Precautions:BOND/GROUND ALL EQPMT WHEN TRANSFERRING FROM VESSEL
TO ANOTHER.STORE ONLY IN APPROVED CNTNR.PROTECT FROM PHYS
DAMAGE.USE EXPLOSION-PROOF EQPMT.DO NOT ENTER CONFINED SPACES W/O
PROPER ENTRY PROCEDURES (ASTM D4276).OUTDOOR/DETACH STORAGE PREF

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

Respiratory Protection:THE USE OF RESP PROTECTION IS ADVISED WHEN
CONCEN EXCEED ANY ESTABLISHED EXPOSURE LIMITS. DEPENDING ON
AIRBORNE CONCEN USE RESP OR GAS MASK W/APPROPRIATE CARTRIDGES &
CANNISTERS(NIOSH APPORVED IF AVAI LABLE) OR SUPPLIED AIR EQPMT.

Ventilation:REQUIRED.ADDTN VENTIL/EXHAUST SYS MAY BE REQUIRED IF
CURRENT VENTIL PRACTICES AREN'T ADEQU.EQPMT SHOULD EXPLOSION PROOF.

Protective Gloves:IMPERMEABLE GLOVES.

Eye Protection:SAFETY GLASSES.

Other Protec

tive Equipment:IT IS SUGGESTED THAT SOURCE OF CLEAN WATER
BE AVAILABLE IN WORK AREA FOR FLUSHING EYE/SKIN.IMPERVIOUS CLOTHING
AS NEEDED

Work Hygienic Practices:WASH THOROUGHLY AFT HANDLING.USE GOOD PERSONAL
HYGIENE PTRACTICE.DO NOT WEAR CONTAMIN CLOTH/SHOE.

Supplemental Safety and Health

1ST AID:ON LEFT SIDE,HEAD DOWN.IF CONSC/ALERT INDUCT VOMIT IF INGEST
>5OZ MATL W/SYRUP OF IPECAC UNDER MED ATTN.STORAGE:EMPTY CNTNR
RETAIN RESIDUE & ARE DANGEROUS.DO NOT PRES/CUT/WELD/BRAZE/ET
C SUCH
CN TNR. EMPTY DRUMS SHOULD BE DRAINED/BUNGED/SHIPPED TO
SUPPLIER/DRUM RECONDITIONER.

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

HCC:F1

Boiling Pt:B.P. Text:85.0F,29.4C

Vapor Density:>1

Spec Gravity:0.74

Evaporation Rate & Reference:>1, N-BUTYL ACETATE=1.

Solubility in Water:NEGLIGIBLE.

Appearance and Odor:CLEAR LIQUID, GASOLINE ODOR.

Percent Volatiles by Volume:100

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

Stability Indica

tor/Materials to Avoid: YES

CONTACT W/STRONG OXIDIZING AGENTS SUCH AS CHLORINE, PERMANGANATES & DICHROMATES MAY CAUSE FIRE OR EXPLOSION.

Stability Condition to Avoid: EXTREMELY FLAMM LIQ/VAP. VAP MAY CAUSE FLASH FIRE. AVOID ALL POSSIBLE SOURCES OF IGNITION.

Hazardous Decomposition Products: COMBUST MAY YIELD SIGNIFICANT AMTS OF CARBON MONOXIDE & SMALL AMTS OF OXIDES OF SULFUR & NITROGEN, BENZENE, OTHER ORG CMPD

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

Waste

Disposal Methods: NOTIFY AUTHORITIES OF SPILLS/RELEASES. DISPOSE OF PRODUCT IN ACCORDANCE W/LOCAL, STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.