

May 18, 1988

Mr. Robert Nolan Fire Inspector San Leandro Fire Department 835 E. 14th Street San Leandro, CA 94577

Re: 1988 Precision Tank Test Results

UNOCAL SERVICE STATION #2512 - San Leandro /300 David #3844 - San Leandro /903 Doclette #5430 - San Leandro /935 Washington #6277 - San Leandro

Dear Mr. Nolan:

Enclosed please find the tank test reports for the above referenced service stations as required by AB 1362 (Sher Bill) for the monitoring alternatives (No's. 5 & 7) elected by Unocal.

Testing for 1988 in your jurisdiction is now complete. Note that repairs are being effected for the system with a 'leak' indicated. A second test will be made on the system and the results will be forwarded to you as soon as possible.

Please contact Mr. Tim Ross or Mr. Roger Folda of Unocal at (415) 945-7676 should you have any questions regarding the testing program.

Very truly yours,

ROBERT H. LEE & ASSOCIATES, INC.

Zaiga Gianino Project Manager

ZG/cw Enclosures

cc: R. Folda - Unocal T. Ross - Unocal

UNOCALØ

ATTACHMENT II

Product Name: UNOCAL 76 UNLEADED GASOLINE

Product Code No: 00401

Page 1 of 7/10/

Issue Date:

MANUFACTURER:

UNOCAL REFINING & MARKETING DIVISION UNION OIL COMPANY OF CALIFORNIA 1201 H. 5TH STREET LOS ANGELES, CALIFORNIA 90017

CONTACT FOR FURTHER INFORMATION: MSDS COORDINATOR (213) 977-7589 Transportation Emergencies: Call CHEMTREC (800) 424-9300 Cont. U. (202) 483-7616 (Collect from Alaska & Hawaii Health Emergencies: CALL LOS ANGELES POISON INFORMATION CENTER (24 hrs

(213) 664-2121

PRODUCT IDENTIFICATION

PRODUCT NAME:

UNOCAL 76 UNLEADED GASOLINE

SYNONYMS:

UNION 76 UNLEADED GASOLINE

GENERIC NAME:

UNLEADED GASOLINE

CHEMICAL FAMILY: PETROLEUM HYDROCARBON MIXTURE

DOT PROPER

SHIPPING NAME:

GASOLINE

ID NUMBER:

UN1203

SECTION I - INGREDIENTS

UNITS

FULL TERM THA

TYPE

GASOLINE

BENZENE

10.00 PPM

300.00 PPH

TLV

OSHA

AGENCY

ACBIH

FULL TERM THA

GASOLINE IS A COMPLEX COMBINATION OF HYDROCARBONS INCLUDING A SMALL QUANTITY OF BENZENE.
THE IDENTITIES OF INGREDIENTS THAT ARE TRADE SECRETS ARE EXCLUDED FROM

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

XXXEMERGENCYXXX

Have physician call LOS ANGELES POISON INFORMATION CENTER (24 hrs.) (213) 664-2121

EYE CONTACT:

FOR DIRECT CONTACT, FLUSH THE AFFECTED EYE(S) WITH CLEAN MATER. IF IRRITATION OR REDNESS DEVELOPS, SEEK MEDICAL ATTENTION.

SKIN CONTACT:

HIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY MASHING HITH SOAP AND MATER. IF IRRITATION OR REDNESS DEVELOPS AND

Page 2 of 5 Issue Date: 7/10/8

SECTION II - EMERGENCY AND FIRST AID PROCEDURES ***EMERGENCY***

Have physician call LOS ANGELES POISON
INFORMATION CENTER (24 hrs.) (213) 664-2121

INHALATION (BREATHING):

IF SYMPTOMS OF EXPOSURE DEVELOP (SEE SECTION III), MOVE AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING OR IF BREATHING DIFFICULTIES DEVELOP, ARTIFICIAL RESPIRATION OR OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION (SWALLOWING):

*** ASPIRATION HAZARD: DO NOT INDUCE VOMITING BECAUSE GASOLINE CAN ENTER LUNGS AND CAUSE SEVERE LUNG DAMAGE. *** IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2 TO 3 CUPS OF MILK OR WATER TO DRINK. SEEK MEDICAL ATTENTION. TO PHYSICIAN: EMESIS OR LAVAGE IS NOT RECOMMENDED FOR INGESTIONS OF MINUTE QUANTITIES OR TASTES OF MOST HYDROCARBONS. MEDICAL OPINION IS DIVIDED FOR LARGER INGESTIONS. EMESIS OR LAVAGE HAS BEEN RECOMMENDED FOR THOSE PETROLEUM PRODUCTS WHICH HAVE A HIGH ORAL TOXICITY. GASTRIC LAVAGE WITH A CUFFED ENDOTRACHEAL TUBE IS RECOMMENDED BY SOME PHYSICIANS TO PREVENT

SECTION III - POTENTIAL ADVERSE HEALTH EFFECTS

EYE CONTACT:

THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT MAY CAUSE BURNING, TEARING AND REDNESS.

SKIN CONTACT:

THIS MATERIAL MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE REDNESS AND BURNING, DRYING AND CRACKING, AND DERMATITIS.

INHALATION (BREATHING):

EXPOSURE TO MISTS OR PROLONGED OR REPEATED EXPOSURE TO FUMES OR VAPORS MAY CAUSE INITIAL NERVOUS SYSTEM STIMULATION FOLLOWED BY NERVOUS SYSTEM DEPRESSION. SYMPTOMS INCLUDE: FLUSHING, BLURRED VISION, DIZZINESS, NAUSEA, HEADACHE, DROWSINESS, LOSS OF CONDINATION, AND FATIGUE. A SEVERE ACUTE EXPOSURE MAY CAUSE LOSS OF CONSCIOUSNESS, CONVULSIONS, RESPIRATORY COLLAPSE, AND DEATH.

INGESTION (SWALLOWING):

ACCIDENTAL INGESTION OF THIS MATERIAL MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DIZZINESS, LOSS OF COORDINATION, AND FATIGUE). THIS MATERIAL IS AN ASPIRATION HAZARD; GASOLINE CAN ENTER LUNGS DURING SHALLONING OR VOMITING AND CAUSE LUNG INFLAMMATION AND DAMAGE.

COMMENTS:

GASOLINE INHALATION HAS BEEN SHOWN TO CAUSE TUMORS IN LABORATORY ANIMALS AFTER LONG TERM EXPOSURE. GASOLINE CONTAINS A SMALL AMOUNT OF BENZENE. BENZENE IS ASSOCIATED WITH LEUKEMIA, OTHER BLOOD DISCRETS AND CHROMOSOME DAMAGE IN HUMANS, AND ADVERSE REPRODUCTIVE EFFECTS IN LABORATORY ANIMALS. WHILE THERE IS INSUFFICIENT EVIDENCE TO SHOW THAT GASOLINE POSES ANY HAZARD RELATED TO ITS LOW BENZENE CONTENT, PRUDENT HANDLING IS ADVISED.

Page 3 of 1 Issue Date: 7/10/5

SECTION IV - SPECIAL PROTECTION INFORMATION

VENTILATION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE IN MAINTAINING AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I), ADDITIONAL EXPLOSION-PROOF VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED.

RESPIRATORY PROTECTION:

THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN VAPOR OR GAS CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I). DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR OR GAS MASK WITH APPROPRIATE CARTRIDGES AND CANNISTERS (NIOSH APPROVED, IF AVAILABLE) OR SUPPLIED AIR EQUIPMENT.

PROTECTIVE GLOVES:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT, POSSIBLE IRRITATION AND ABSORPTION.

EYE PROTECTION:

APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN HORK AREA FOR FLUSHING EYES AND SKIN. BARRIER CREAMS THAT ARE SPECIFIC FOR GIL-BASED MATERIALS ARE RECOMMENDED WHEN GLOVES ARE IMPRACTICAL.

SECTION V - REACTIVITY DATA

<u> STABILITY:</u>

STABLE

CONDITIONS TO AVOID (STABILITY):

AVOID CONTACT OF LIQUID, FUMES, OR VAPORS WITH ANY SOURCE OF HEAT, SPARKS, OR FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE, PERMANGANATES AND DICHROMATES MAY CAUSE FIRE OR EXPLOSION.

HAZARDOUS DECOMPOSITION PRODUCTS:

COMBUSTION MAY YIELD SIGNIFICANT AMOUNTS OF CARBON MONOXIDE AND SMALL AMOUNTS OF OXIDES OF SULFUR AND NITROGEN, BENZENE AND OTHER ORGANIC COMPOUNDS.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

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Page 4 of Issue Date: 7/10/

SECTION VI - SPILL OR LEAK PROCEDURES

***HIGHWAY OR RAILWAY SPILLS** Call CHEMTREC (800) 424-9300 Cont. U.S. (Collect) (202) 483-7616 from Alaska & Hawa

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

STAY UPWIND AND AWAY FROM SPILL UNLESS WEARING A SELF-CONTAINED BREATHING APPARATUS (SCBA). ISOLATE HAZARD AREA AND RESTRICT ENTRY. STOP AND/OR CONTAIN DISCHARGE IF IT CAN BE DONE SAFELY. FLAMMABLE; KEEP ALL SOURCES OF IGNITION AND HOT METAL SURFACES AWAY FROM SPILL. USE NON-SPARKING TOOLS FOR CLEANUP. KEEP OUT OF DRAINS, SENERS OR HATERWAYS. SPILLED MATERIAL MAY BE ABSORBED INTO AN APPROPRIATE ABSORBANT. CONTACT FIRE AUTHORITIES AND APPROPRIATE STATE/LOCAL AGENCIES. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY COAST GUARD NATIONAL RESPONSE CENTER (PHONE NUMBER 800-424-8802).

MASTE DISPOSAL METHOD:

DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

STORE ONLY IN APPROVED CONTAINERS. KEEP CONTAINERS TIGHTLY CLOSED, OUT OF DIRECT SUNLIGHT, AND AMAY FROM ALL SOURCES OF IGNITION. KEEP AMAY FROM INCOMPATIBLE MATERIALS (SEE SECTION V). OUTDOOR OR DETACHED STORAGE IS PREFERRED. INDOOR STORAGE SHOULD BE IN A STANDARD FLAMMABLE LIQUID STORAGE ROOM. PROVIDE ADEQUATE VENTILATION AND POST AREA "NO SMOKING OR OPEN FLAME." BOND AND GROUND ALL EQUIPMENT WHEN TRANSFERRING FROM ONE VESSEL TO ANOTHER. KEEP HORK AREA FREE OF HOT METAL SURFACES AND OTHER SOURCES OF IGNITION. AVOID INHALATION OF VAPORS AND PERSONAL CONTACT WITH WEARING.

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

HAZARD RANKING 0 = LEAST HEALTH HAZARD: 2 NFPA DOT FLAMMABILITY CLASSIFICATION FLAMMABILITY: 3 HAZARD FLASH POINT 1 = SLIGHT CLASS REACTIVITY: 0 2 = MODERATE OTHER: 3 = HIGH

FLAMMABLE LIQUID -45 TCC F 4 = EXTREME

EXTINGUISHING MEDIA:

THE USE OF DRY CHEMICAL, FOAM OR COZ IS RECOMMENDED. MATER MAY BE INEFFECTIVE.

FIRE & EXPLOSION HAZARDS:

THIS MATERIAL IS EXTREMELY FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS OR FLAMES. FLASHBACK ALONG VAPOR TRAIL MAY OCCUR.

FIRE FIGHTING PROCEDURES:

THE USE OF A SELF-CONTAINED BREATHING APPARATUS (SCBA) IS RECOMMENDED FOR FIRE FIGHTERS. HATER SPRAY MAY BE USEFUL IN MINIMIZING VAPORS AND COOLING CONTAINERS EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID HITH HATER USED FOR COOLING PURPOSES. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK.

Product Name: UNOCAL 76 UNLEADED GASOLINE

5 of 7/10/8

Product Code No: 00401			Page Issue Date:
SECTION IX - PHYSICAL DA	TA		
APPROX. BOILING RANGE 85 - 430 F 29-221 C	VAPOR DENSITY HEAVIER THAN AIR	EVAPORATION RATE SLOWER THAN ETHER	X VOLATILE
<pre>% SOLUBILITY IN WATER NEGLIGIBLE ODOR</pre>	SPECIFIC GRAVITY 0.75	APPEARANCE CLEAR LIQUID	
GASOLINE ODOR SECTION X - PRECAUTIONAR	V 1100		
- PRECAUTIONAR	TLABEL		
DANGER! EXTREMELY FLAN IF SHALLOWED. VAPOR HA WITH LABORATORY ANIMAL	ARMFUL. POSSIBLE CANC	PLODE. HARMFUL OR FATA ER HAZARD BASED ON TEST AHAY FROM HEAT. SPARKS	Š

WITH LABORATURY ANIMALS. NO SMOKING. KEEP AWAY FROM HEAT, SPARKS OR FLAME, INCLUDING PILOT LIGHTS, ELECTRIC MOTORS AND OTHER SOURCES OF IGNITION. VAPORS MAY BE IGNITED BY SPARK OR FLAME SOURCE MANY FEET AWAY. DO NOT OVERFILL TANK. USE ONLY WITH ADEQUATE VENTILATION. AVOID PROLONGED BREATHING OF VAPORS. KEEP FACE AWAY FROM NOZZLE AND CONTAINER OPENING. KEEP AWAY FROM EYES, SKIN AND CLOTHING. WASH THOROUGHLY IF EYE OR SKIN CONTACT OCCURS. NEVER SIPHON BY MOUTH. FOR USE AS MOTOR FUEL ONLY. DO NOT USE FOR ANY OTHER PURPOSE. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR THIS CONTAINER. AFTER CONTAINER HAS BEEN EMPTIED, IT WILL CONTAIN EXPLOSIVE VAPORS. KEEP OUT OF REACH ILLNESS.

SECTION XI - DOCUMENTARY INFORMATION			
ISSUE DATE: 7/10/85 PREV. DATE: 7/ 6/83			

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MATERIAL SAFETY DATA SHEET

UNOCALO

Product Name: UNCCAL SUPER 76 UNLEADED PREMIUM GASOLINE Product Code No:00901

Page 1 of 1ssue Date: 3/24

MANUFACTURER:

UNOCAL REFINING & MARKETING DIVISION UNION OIL COMPANY OF CALIFORNIA 1201 H. 5TH STREET LOS ANGELES, CALIFORNIA 90017

CONTACT FOR FURTHER INFORMATION: MSDS COORDINATOR (213) 977-7589

Transportation Emergencies:
Call CHEMIREC
(800) 424-9300 Cont. U.
(202) 483-7616 (Collect
from Alaska & Hawaii
Health Emergencies:
CALL LOS ANGELES POISON
INFORMATION CENTER (24 hrs
(213) 664-2121

PRODUCT IDENTIFICATION

PRODUCT NAME:

UNOCAL SUPER 76 UNLEADED PREMIUM GASOLINE

SYNONYMS:

UNION SUPER 76 UNLEADED PREMIUM GASOLINE

GENERIC NAME:

UNLEADED GASOLINE

CHEMICAL FAMILY: PETROLEUM HYDROCARBON MIXTURE

DOT PROPER

SHIPPING NAME:

GASOLINE

ID NUMBER:

UN1283

SECTION I -	INGREDIENTS
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TLY UNITS AGENCY TYPE

GASOLINE

300.00 PPW ACGIH

FULL TERM THA

BENZENE

18.88 PPW DSMA

FULL TERM THA

GASOLINE IS A COMPLEX COMBINATION OF HYDROCARBONS, INCLUDING A SMALL QUANTITY OF BENZENE.
THE IDENTITIES OF INGREDIENTS THAT ARE TRADE SECRETS ARE EXCLUDED FROM THIS LIST.

SECTION II - EMERGENCY AND FIRST AID PROCEDURES.

HERETERSENCY HER

Have physician call LOS ANGELES POISON INFORMATION CENTER (24 hrs.) (213) 664-2121

EYE CONTACT:

FOR DIRECT CONTACT, FLUSH THE AFFECTED EYE(S) HITH CLEAN WATER. IF IRRITATION OR REDNESS DEVELOPS, SEEK MEDICAL ATTENTION.

SKIN CONTACT:

HIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY HASHING HITH HILB SOAP AND MATER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

Page 3 of 1

SECTION IV - SPECIAL PROTECTION INFORMATION

VENTILATION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE IN MAINTAINING AIRBORNE! CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I), ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED. WHERE EXPLOSIVE MIXTURES MAY BE PRESENT, ELECTRICAL SYSTEMS SAFE FOR SUCH LOCATIONS MUST BE USED.

RESPIRATORY PROTECTION:

THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I). DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR OR GAS MASK WITH APPROPRIATE CARTRIDGES AND CANNISTERS (NIOSH APPROVED, IF AVAILABLE) OR SUPPLIED AIR EQUIPMENT.

PROTECTIVE GLOVES:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT, POSSIBLE IRRITATION AND ABSORPTION.

EYE PROTECTION:

APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

IT IS SUGGESTED THAT A SOURCE OF CLEAN HATER BE AVAILABLE IN HORK AREA FOR FLUSHING EYES AND SKIN. BARRIER CREAMS THAT ARE SPECIFIC FOR OIL-BASED MATERIALS ARE RECOMMENDED WHEN GLOVES ARE IMPRACTICAL.

SECTION V - REACTIVITY DATA

STABILITY:

STABLE

CONDITIONS TO AVOID (STABILITY):

AVOID CONTACT OF LIQUID, FUMES, OR VAPORS HITH ANY SOURCE OF HEAT, SPARKS, OR FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE, PERMANGANATES AND DICHROMATES MAY CAUSE FIRE OR EXPLOSION.

HAZARDOUS DECOMPOSITION PRODUCTS:

COMBUSTION MAY YIELD SIGNIFICANT AMOUNTS OF CARBON MONOXIDE AND SMALL AMOUNTS OF OXIDES OF SULFUR AND NITROGEN, BENZENE AND OTHER ORGANIC COMPOUNDS.

HAZARDOUS POLYMERIZATION:

HILL NOT OCCUR

Product Name: UNOCAL SUPER 76 UNLEADED PREMIUM GASOLINE

Product Code No: 00901	THE PROPERTY OF	GASULTRE	Page 5 c Issue Date: 32
SECTION IX - PHYSICAL DA	ATA .		
APPROX. BOILING RANGE 85 - 430 F 29-221 C	HEAVIER THAN AIR	SLOHER THAN ETHER	X VOLATILE
	0.75	<u>Appearance</u> Red Liquid	
ODOR Gasoline odor			
SECTION X - PRECAUTIONAR	Y LABEL		
MITH LABORATORY ANIMAL FLAME, INCLUDING PILOT IGNITION. VAPORS MAY AMAY. DO NOT OVERFILL AVOID PROLONGED BREATH: CONTAINER OPENING. KEI THOROUGHLY IF EYE OR SIFOR USE AS MOTOR FUEL (NOT CUT, PUNCTURE OR MISS BEEN EMPTIED, IT MISS BEEN EMPTIED, IT MISS CHILDREN. FAILURE	ARTHUL PUSSIBLE CANCER	RS AND OTHER SOURCES OF FLAME SOURCE MANY FEET ADEQUATE VENTILATION. ACE AMAY FROM MOZZLE AN AND CLOTHING. MASH EVER SIPHON BY MOUTH. ANY OTHER PURPOSE. DO NTAINER. AFTER CONTAIN	S OR D ER: ACH

2EC1	TON	XI	-	DOCUP	IENTA	IRY	INF	CRMAT	'ION

ISSUE DATE: 3/24/86	PRODUCT CODE NO. 80901
PREV. DATE:	PREV. PROD. CODE NO.
MSDS NO:	PREV. MSDS NG:

DISCLAIMER OF EXPRESSED AND IMPLIED HARRANTIES

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Page 2_of Issue Date: 3/24/

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

XXXEMERGENCYXXX

Have physician call LOS ANGELES POISON INFORMATION CENTER (24 hrs.) (213) 664-2121

INHALATION (BREATHING):

IF SYMPTOMS OF EXPOSURE DEVELOP (SEE SECTION III), MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING OR IF BREATHING DIFFICULTIES DEVELOP, ARTIFICIAL RESPIRATION OR OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL

INGESTION (SHALLOWING):

XXX ASPIRATION HAZARD: DO NOT INDUCE VOMITING BECAUSE GASOLINE CAN ENTER LUNGS AND CAUSE SEVERE LUNG DAMAGE. XXX IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2 TO 3 CUPS OF MILK OR MATER TO DRINK. SEEK MEDICAL ATTENTION. TO PHYSICIAN: EMESIS OR LAVAGE IS NOT RECOMMENDED FOR INGESTIONS OF MINUTE QUANTITIES OR TASTES OF MOST HYDROCARBONS. MEDICAL OPINION IS DIVIDED FOR LARGER INGESTIONS. EMESIS OR LAVAGE HAS BEEN RECOMMENDED FOR THOSE PETROLEUM PRODUCTS HHICH HAVE A HIGH ORAL TOXICITY. GASTRIC LAVAGE HITH A CUFFED ENDOTRACHEAL TUBE IS RECOMMENDED BY SOME PHYSICIANS TO PREVENT

SECTION III - POTENTIAL ADVERSE HEALTH EFFECTS

EYE CONTACT:

THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT MAY CAUSE BURNING, TEARING AND REDNESS.

SKIN CONTACT:

THIS MATERIAL MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE REDNESS AND BURNING, DRYING AND CRACKING, AND DERMATITIS.

INHALATION (BREATHING):

EXPOSURE TO MISTS OR PROLONGED OR REPEATED EXPOSURE TO FUMES OR VAPORS MAY CAUSE INITIAL HERVOUS SYSTEM STIMULATION FOLLOHED BY MERVOUS SYSTEM DEPRESSION. SYMPTOMS INCLUDE: FLUSHING, BLURRED VISION, DIZZINESS, NAUSEA, HEADACHE, DROMSINESS, LOSS OF CORDINATION, AND FATIGUE. A SEVERE ACUTE EXPOSURE MAY CAUSE LOSS OF CONSCIOUSNESS, CONVULSIONS, RESPIRATORY COLLAPSE, AND DEATH.

<u> INGESTION (SWALLOWING):</u>

INGESTION OF THIS MATERIAL MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DROMSINESS, DIZZINESS, LOSS OF COORDINATION, AND FATIGUE). THIS MATERIAL IS AN ASPIRATION HAZARD; GASOLINE CAN ENTER LUNGS DURING SHALLOWING OR VONITING AND CAUSE LUNG INFLAMMATION

COMMENTS:

GASOLINE INHALATION HAS BEEN SHOWN TO CAUSE TUMORS IN LABORATORY ANIMALS AFTER LONG TERM EXPOSURE. GASOLINE CONTAINS A SMALL AMOUNT OF BENZENE. BENZENE IS ASSOCIATED WITH LEUKEMIA, OTHER BLOOD DISCRETS AND CHROMOSOME DAMAGE IN HUMANS, AND ADVERSE REPRODUCTIVE EFFECTS IN LABORATORY ANIMALS. HHILE THERE IS INSUFFICIENT EVIDENCE TO SHOW THAT GASOLINE POSES ANY HAZARD RELATED TO ITS LOW BENZENE CONTENT, PRUDENT HANDLING IS ADVISED.

Page 4 of Issue Date: 3/29/

SECTION VI - SPILL OR LEAK PROCEDURES

XXXHIGHMAY OR RAILWAY SPILLSXXX Call CHEMTREC (800) 424-9300 Cont. U.S. (Collect) (202) 483-7616 from Alaska & Hawa

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

STAY UPWIND AND AMAY FROM SPILL UNLESS HEARING A SELF-CONTAINED BREATHING APPARATUS (SCBA). ISOLATE HAZARD AREA AND RESTRICT ENTRY. STOP AND/OR CONTAIN DISCHARGE IF IT CAN BE DONE SAFELY. EXTREMELY FLAMMABLE; KEEP ALL SOURCES OF IGNITION AND HOT METAL SURFACES AMAY FROM SPILL. KEEP OUT OF DRAINS, SEHERS OR HATERHAYS. SPILLED MATERIAL MAY BE ABSORBED INTO AN APPROPRIATE ABSORBANT. CONTACT FIRE AUTHORITIES AND APPROPRIATE STATE/LOCAL AGENCIES. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE HATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY COAST GUARD NATIONAL RESPONSE CENTER (PHONE NUMBER 808-424-8882).

WASTE DISPOSAL METHOD:

DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

STORE ONLY IN APPROVED CONTAINERS. KEEP CONTAINERS TIGHTLY CLOSED, OUT OF BIRECT SUNLIGHT, AND AWAY FROM ALL SOURCES OF IGNITION. KEEP AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION V). OUTDOOR OR DETACHED STORAGE IS PREFERRED. INDOOR STORAGE SHOULD BE IN A STANDARD FLAMMABLE LIQUID STORAGE ROOM. PROVIDE ADEQUATE VENTILATION AND POST AREA "NO SMOKING OR OPEN FLAME." BOND AND GROUND ALL EQUIPMENT WHEN TRANSFERRING FROM ONE VESSEL TO ANOTHER. KEEP MORK AREA FREE OF HOT METAL SURFACES AND OTHER SOURCES OF IGNITION. AVOID INHALATION OF VAPORS AND PERSONAL CONTACT MITH PRODUCT. WASH THOROUGHLY AFTER HANDLING. DO NOT MEAR OIL-SOAKED CLOTHING OR

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

NFPA HAZARD CLASS

HEALTH HAZARD: 2 FLAMMABILITY: 3 REACTIVITY: 0

OTHER :.

HAZARD RANKING

1 = SLIGHT 2 = MODERATE 3 = HIGH

4 . EXTREME

DOT HAZARD

FLAMMABLE LIQUID

-45 TCC F

FLASH POINT

EXTINGUISHING MEDIA:

THE USE OF DRY CHEMICAL, FOAM OR COZ IS RECOMMENDED. MATER MAY BE INEFFECTIVE.

FIRE & EXPLOSION HAZARDS:

THIS MATERIAL IS EXTREMELY FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAME OR STATIC ELECTRICITY. FLASHBACK ALONG VAPOR TRAIL MAY OCCUR.

FIRE FIGHTING PROCEDURES:

THE USE OF A SELF-CONTAINED BREATHING APPARATUS (SCBA) IS RECOMMENDED FOR FIRE FIGHTERS. MATER SPRAY MAY BE USEFUL IN MINIMIZING VAPORS AND COOLING CONTAINERS EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID WITH MATER USED FOR COOLING PURPOSES. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF YOU CAN DO SO MITHOUT RISK.

UNOCAL®

Product Name: UNOCAL DIESEL #2

PRODUCT CODE NO: 01602

ISSUE DATE: 4/30/88

PAGE 1 OF 5

MANUFACTURER:

UNOCAL REFINING & MARKETING DIVISION UNION OIL COMPANY OF CALIFORNIA 1201 H. 5TH STREET LOS ANGELES, CALIFORNIA 80017

CONTACT FOR FURTHER INFORMATION: MSDS COORDINATOR (213) 977-7589 Transportation Emergencies: Call CHEMTREC (800) 424-8300 Cont. U.S. (202) 483-7616 (Collect) from Alaska & Hawaii Health Emergencies: CALL LOS ANGELES POISON INFORMATION CENTER (24 hrs.) (213) 684-2121

PRODUCT IDENTIFICATION

PRODUCT NAME:

UNOCAL DIESEL #2

SYNONYMS:

UNION DIESEL #2

GENERIC NAME:

MID-DISTILLATE

CHEMICAL FAMILY: PETROLEUM HYDROCARBON

DOT PROPER

SHIPPING NAME:

FUEL CIL NO. 2

ID NUMBER:

NA1983

SECTION I - INGREDIENTS

TLY UNITS AGENCY

TYPE

PETROLEUM DISTILLATES

500.00 PPM

OSHA FULL TERM THA

THE IDENTITIES OF INGREDIENTS THAT ARE TRADE SECRETS ARE EXCLUDED FROM THIS LIST.

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

###EMERGENCY ### Have physician call LOS ANGELES POISON

INFORMATION CENTER (24 hrs.) (213) 664-2121

EYE CONTACT:

FOR DIRECT CONTACT, FLUSH THE AFFECTED EYE(S) WITH CLEAN WATER. SEEK MEDICAL ATTENTION.

SKIN CONTACT:

DO NOT USE GASOLINES, THINNERS OR SOLVENTS TO REMOVE PRODUCT FROM SKIN. IMMEDIATELY HIPE MATERIAL FROM THE SKIN. REMOVE CONTAMINATED CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY HASHING HITH MILD SOAP AND HATER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION (BREATHING):

IF SYMPTOMS OF EXPOSURE DEVELOP (SEE SECTION III), MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL.

ISSUE DATE: 4/30/86

PAGE 2 OF 5

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

***EMERGENCY ###

Have physician call LOS ANGELES POISON INFORMATION CENTER (24 hrs.) (213) 664-2121

INGESTION (SHALLOHING):

*** ASPIRATION HAZARD: DO NOT INDUCE YOMITING BECAUSE PRODUCT CAN ENTER LUNGS AND CAUSE SEVERE LUNG DAMAGE. *** IF YICTIM IS CONSCIOUS AND ALERT, GIVE 2 TO 3 CUPS OF MILK OR HATER TO DRINK. SEEK MEDICAL ATTENTION. TO PHYSICIAN: EMESIS OR LAVAGE IS NOT RECOMMENDED FOR INGESTIONS OF MINUTE QUANTITIES OR TASTES OF MOST HYDROCARBONS. MEDICAL OPINION IS DIVIDED FOR LARGER INGESTIONS. EMESIS OR LAVAGE HAS BEEN. RECOMMENDED FOR THOSE PETROLEUM PRODUCTS WHICH HAVE A HIGH ORAL TOXICITY. GASTRIC LAVAGE HITH A CUFFED ENDOTRACHEAL TUBE IS RECOMMENDED BY SOME PHYSICIANS TO PREVENT ASPIRATION.

SECTION III - POTENTIAL ADVERSE HEALTH EFFECTS

EYE CONTACT:

THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT MAY CAUSE BURNING, TEARING AND REDNESS.

SKIN CONTACT:

THIS MATERIAL MAY CAUSE SEVERE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE REDNESS AND BURNING, DRYING AND CRACKING, SHELLING, BLISTERING AND SKIN DAMAGE.

INHALATION (BREATHING):

EXPOSURE TO MISTS, OR PROLONGED OR REPEATED EXPOSURE TO FUMES OR VAPORS THAT MAY BE GENERATED WHEN THIS MATERIAL IS HEATED, MAY CAUSE IRRITATION OF NOSE AND THROAT AND SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DROHSINESS, DIZZINESS, LOSS OF COORDINATION, AND FATIGUE).

INGESTION (SHALLOHING):

INGESTION OF THIS MATERIAL MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DROWSINESS, DIZZINESS, LOSS OF COORDINATION, AND FATIGUE). THIS MATERIAL IS AN ASPIRATION HAZARD, PRODUCT CAN ENTER LUNGS DURING SHALLOHING OR YOMITING AND CAUSE LUNG INFLAMMATION AND DAMAGE.

COMMENTS:

REPETITIVE DIRECT SKIN APPLICATION OF MIDDLE DISTILLATES SIMILAR TO THIS PRODUCT FOR THO YEARS RESULTED IN SKIN CANCER IN LABORATORY ANIMALS.

SECTION IV - SPECIAL PROTECTION INFORMATION

YENTILATION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I), ADDITIONAL EXPLOSION-PROOF VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED. HHERE EXPLOSIVE MIXTURES MAY BE PRESENT, SYSTEMS SAFE FOR SUCH LOCATIONS SHOULD BE USED.

RESPIRATORY PROTECTION:

THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I). DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR OR GAS MASK WITH APPROPRIATE CARTRIDGES AND CANNISTERS (NIGSH APPROVED, IF AVAILABLE) OR SUPPLIED AIR EQUIPMENT.

PROTECTIVE GLOVES:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION.

Product Name: UNGCAL DIESEL #2

PRODUCT CODE NO: 01602

ISSUE DATE: _4/30/86

PAGE 3 OF 5

SECTION IV - SPECIAL PROTECTION INFORMATION

EYE PROTECTION:

APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

IT IS SUGGESTED THAT A SOURCE OF CLEAN HATER BE AVAILABLE IN HORK AREA FOR FLUSHING EYES AND SKIN. BARRIER CREAMS THAT ARE SPECIFIC FOR OIL-BASED MATERIALS ARE RECOMMENDED WHEN GLOYES ARE IMPRACTICAL.

SECTION Y - REACTIVITY DATA

STABILITY:

STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

AYOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD MAJOR AMOUNTS OF OXIDES OF CARBON, AND MINOR AMOUNTS OF OXIDES OF SULFUR AND NITROGEN.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION YI - SPILL OR LEAK PROCEDURES

HIGHWAY OR RAILWAY SPILLS
Cali CHEMTREC (800) 424-9300 Cont. U.S.
(Collect) (202) 483-7818 from Alaska & Hawaii

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

ISOLATE HAZARD AREA AND RESTRICT ENTRY. STOP AND/OR CONTAIN DISCHARGE IF IT CAN BE DONE SAFELY. COMBUSTIBLE; KEEP ALL SOURCES OF IGNITION AND HOT METAL SURFACES AHAY FROM SPILL. KEEP OUT OF DRAINS, SEHERS OR WATERHAYS. TAKE UP SPILLED MATERIAL HITH SAND OR OTHER INERT NON-COMBUSTIBLE MATERIAL, THEN FLUSH AREA WITH HATER. CONTACT FIRE AUTHORITIES AND APPROPRIATE STATE/LOCAL AGENCIES. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAYIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY COAST GUARD NATIONAL RESPONSE CENTER (PHONE NUMBER 800-424-8802).

HASTE DISPOSAL METHOD:

DISPOSE OF PRODUCT IN ACCORDANCE HITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

STORE IN A COOL, DRY LOCATION. KEEP CONTAINERS TIGHTLY CLOSED. KEEP AHAY FROM INCOMPATIBLE MATERIALS (SEE SECTION V). USE AND STORE THIS PRODUCT WITH ADEQUATE YENTILATION. POST AREA "NO SMOKING OR OPEN FLAME." BOND AND GROUND ALL EQUIPMENT WHEN TRANSFERRING FROM ONE YESSEL TO ANOTHER. KEEP HORK AREA FREE OF HOT METAL SURFACES AND OTHER SOURCES OF IGNITION. AYOID INHALATION OF VAPORS AND PERSONAL CONTACT WITH PRODUCT. HASH THOROUGHLY AFTER HANDLING. DO NOT WEAR OIL-SOAKED CLOTHING OR

CLASS

Product Name: UNOCAL DIEJEL #2 PRODUCT CODE NO: 01602

ISSUE DATE: 4/30/86

00011 PAGE 4 OF 5

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

HAZARD RANKING

NFPA HEALTH HAZARD: 0 HAZARD

FLAMMABILITY: 2 REACTIVITY: 0

OTHER:

0 = LEAST 1 = SLIGHT

3 = HIGH

4 = EXTREME

2 = MODERATE

FLASH POINT

DOT FLAMMABILITY CLASSIFICATION

COMBUSTIBLE LIQUID

140-190 F 60-87, PMCC C

EXTINGUISHING MEDIA:

EXTINGUISH WITH DRY CHEMICAL, CO2, WATER SPRAY, FOAM, SAND OR EARTH.

FIRE & EXPLOSION HAZARDS:

THIS MATERIAL IS COMBUSTIBLE AND MAY BE IGNITED BY HEAT OR FLAME.

FIRE FIGHTING PROCEDURES:

HATER SPRAY MAY BE USEFUL IN MINIMIZING VAPORS AND COOLING CONTAINERS EXPOSED TO HEAT AND FLAME. AYOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK.

SECTION IX - PHYSICAL DATA

APPROX. BOILING RANGE VAPOR DENSITY

EVAPORATION RATE

X YOLATILE

490 - 700 F 232 - 371 C

HEAVIER THAN AIR

SLOWER THAN ETHER

98×

% SOLUBILITY IN HATER

SPECIFIC GRAVITY

APPROX. BULK DENSITY (16/941)

NEGLIGIBLE

0.85

7.0

APPEARANCE

ODOR

CLEAR TO YELLOW

SECTION X - PRECAUTIONARY LABEL

DANGER! HARMFUL OR FATAL IF SHALLOHED.

COMBUSTIBLE.

CAUSES SKIN IRRITATION.

POSSIBLE SKIN CANCER HAZARD BASED ON TESTS WITH LABORATORY ANIMALS. IF SHALLOHED DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY.
KEEP AHAY FROM HEAT AND FLAME. DO NOT GET IN EYES, ON SKIN, OR ON
CLOTHING. DO NOT TASTE OR SHALLOH. DO NOT BREATHE HIST OR VAPOR. KEEP CONTAINER CLOSED. USE ONLY HITH ADEQUATE VENTILATION. HASH THOROUGHLY AFTER HANDLING.

Product Name: UNOCAL DIESEL #2

PRODUCT CODE NO: 01602

ISSUE DATE: _4/30/86

65611 PAGE 5 OF 5

SECTION XI - DOCUMENTARY INFORMATION

ISSUE DATE: 4/30/88 PREV. DATE: 7/11/85 PRODUCT CODE NO. 01602

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