

Project #: 1753

Mittelhauser Corporation

PLAN PREPARED BY: M. Bushnell DATE: 8/23/91

PLAN APPROVED BY: T. Carlson DATE: 8/23/91

SITE SAFETY PLAN

A. GENERAL INFORMATION

SITE: Bedford/Unisource
 LOCATION: 6700 Golden Gate Way, Dublin
 OBJECTIVES: Install 1 to 3 monitoring wells
 PROPOSED DATE OF INVESTIGATION: Sept 2 and 9, 1991
 SUMMARY OF OVERALL HAZARD: Serious; Moderate; Low; Unknown.

B. EMERGENCY INFORMATION

LOCAL EMERGENCY:

Ambulance, Poison Control Center, Police, Fire Department, Explosives Unit: 911
 Hospital Emergency Room: address: 6001 Norris Cyn. Rd. phone: (415) 275-9200
 Utilities: PG & E (415) 820-2000

EMERGENCY ROUTES: (Map is attached to the back of this document.)

Hospital: Left on Dublin Bl; right on San Ramon Bl to Alcosta on ramp of 680 freeway (direction towards Sacramento); off at
 other: Norris Canyon Road; turn right (east) 1/2 mile to emergency room.

MITTELHAUSER CONTACT: Dwight Hoenig Phone: (415) 743-0335.

CLIENT CONTACT: Gina Dimiteo, Bedford Properties, (415) 275-9337

CLIENT'S EMERGENCY SERVICE:

SITE RESOURCES:

First Aid Kit: in Mittelhauser van
 Drinking Water: " " "
 Telephone: " " "
 Other:

C. FACILITY DESCRIPTION:

Type of business being conducted, or other use: Shipping
STATUS: Active; Inactive; Unknown:

Unusual features (power lines, terrain, utilities, etc.):

Power lines north of pit.

HISTORY (Agency Action, Complaints, Injuries, etc.)

No history of complaints etc. known

D SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid; Solid; Sludge; Gas.

CHARACTERISTICS: Corrosive; Ignitable; Radioactive; Volatile;
 Toxic; Reactive; Other (name).....; Unknown.

E. HAZARD EVALUATION

See attached MSDSs

SPECIAL PRECAUTIONS AND COMMENTS:

Be aware of heat increasing throughout the day.
Watch overhead lines, tower.

F SAFETY WORKPLAN

PERSONAL PROTECTION: Level of Protection: A: B: C: D

Modifications: hard hat, steel toe boots, long sleeves & pants

Surveillance equipment: Instrument: PID Action Level: 50 units

SITE PROCEDURES: Drill one boring to 10' below
first-encountered water, sample soil, install
a monitor well. Two additional wells if necessary.

DECONTAMINATION PROCEDURES:

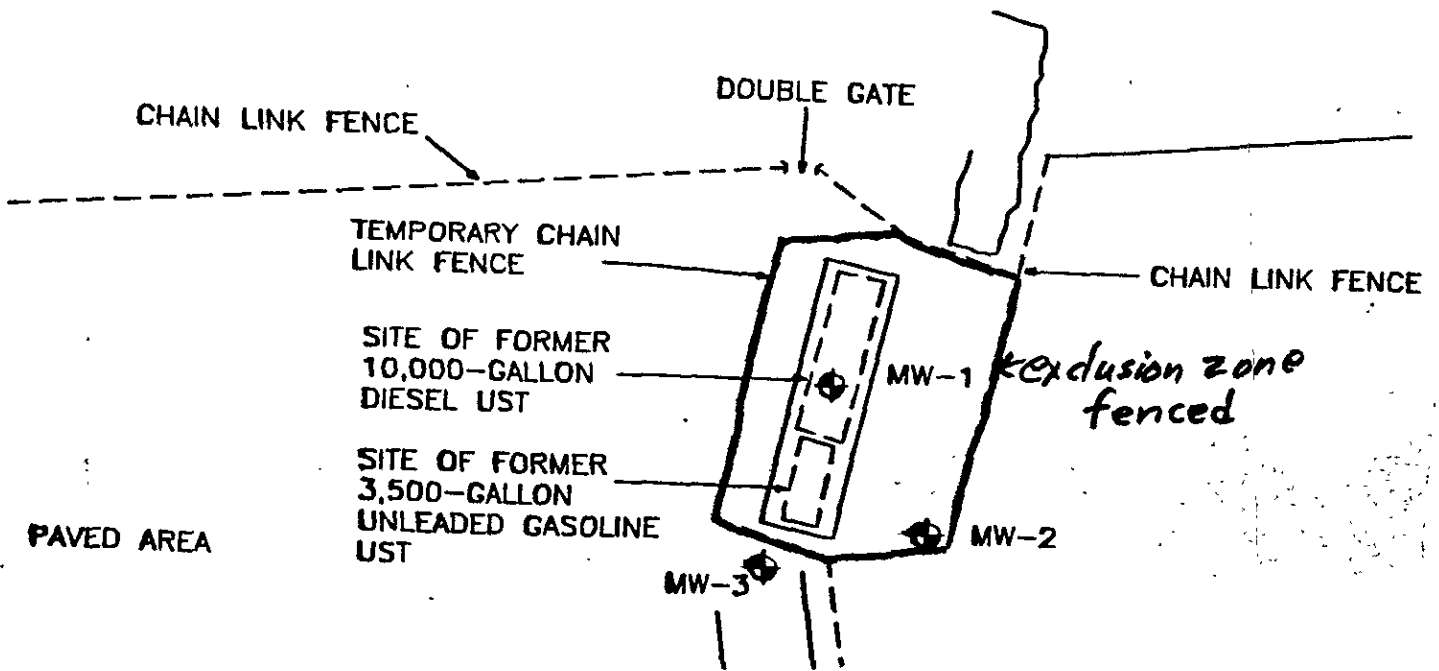
Personal: soap & water, clean water rinse

Equipment: steam-clean or soap & water with clean rinse

WORK LIMITATIONS (time of day, weather, heat/cold stress) : daylight

INVESTIGATION-DERIVED MATERIAL DISPOSAL: stock pile soil on Visquine
and water in drums pending appropriate disposal.

SITE SKETCH: (Exclusion zone, command post, decon, etc.)



I am familiar with, and understand, the contents of this Site Safety Plan.

signature

name

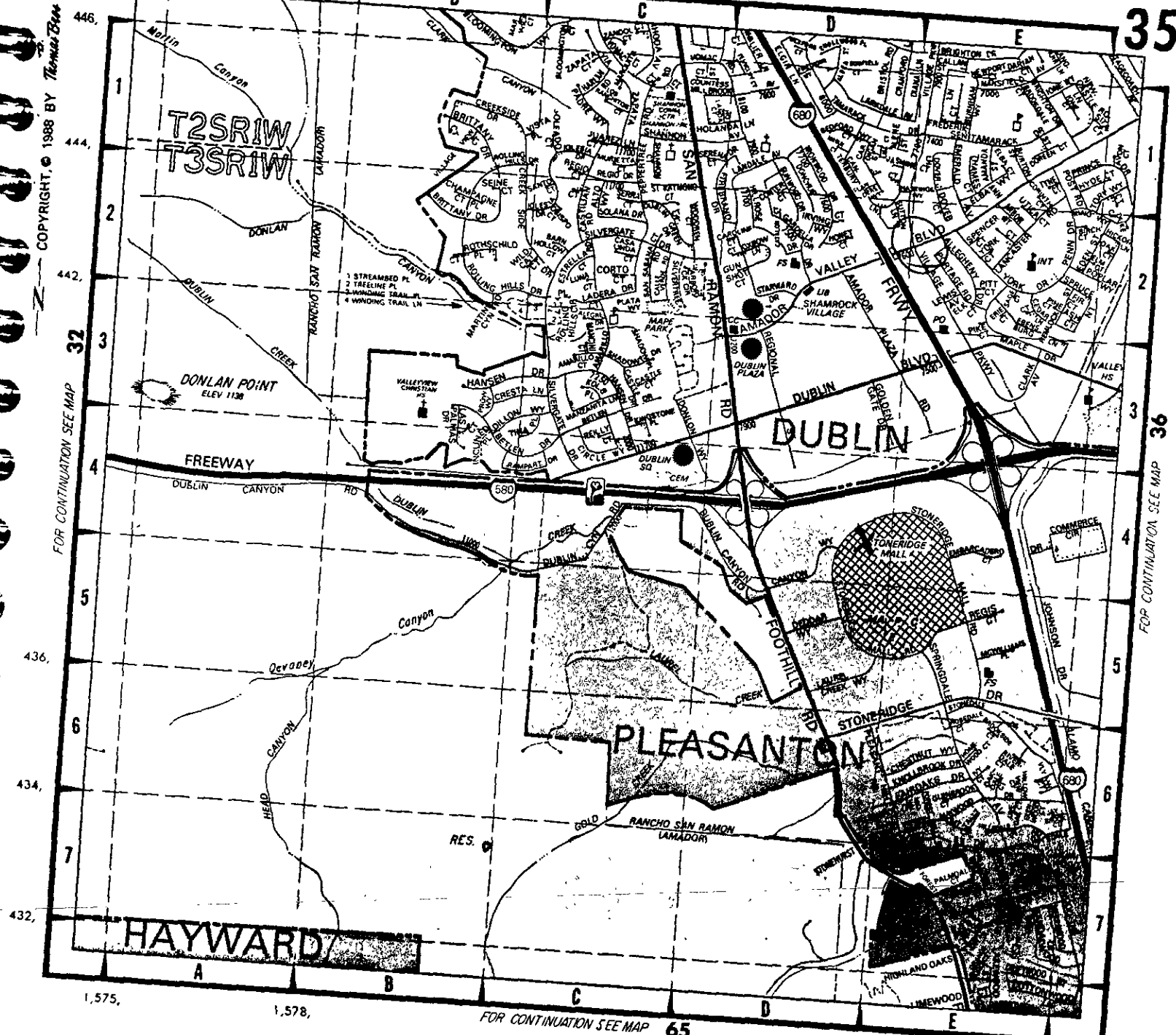
date

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FOR CONTINUATION SEE MAP 33

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FOR CONTINUATION SEE MAP 32

FOR CONTINUATION SEE MAP 36

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1,578,

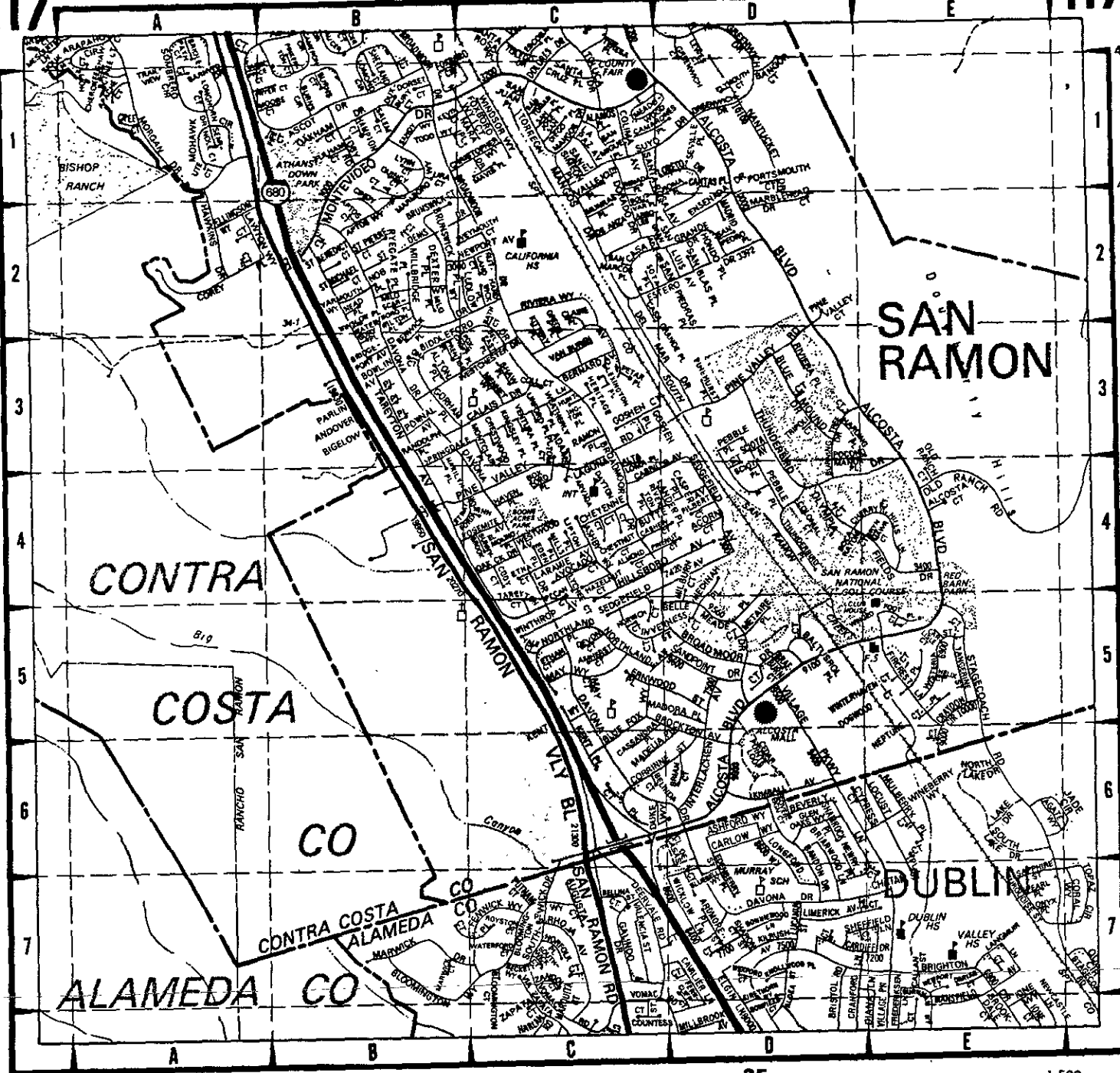
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1,587,

1,590

FOR CONTINUATION SEE MAP 116

FOR CONTINUATION SEE MAP 118



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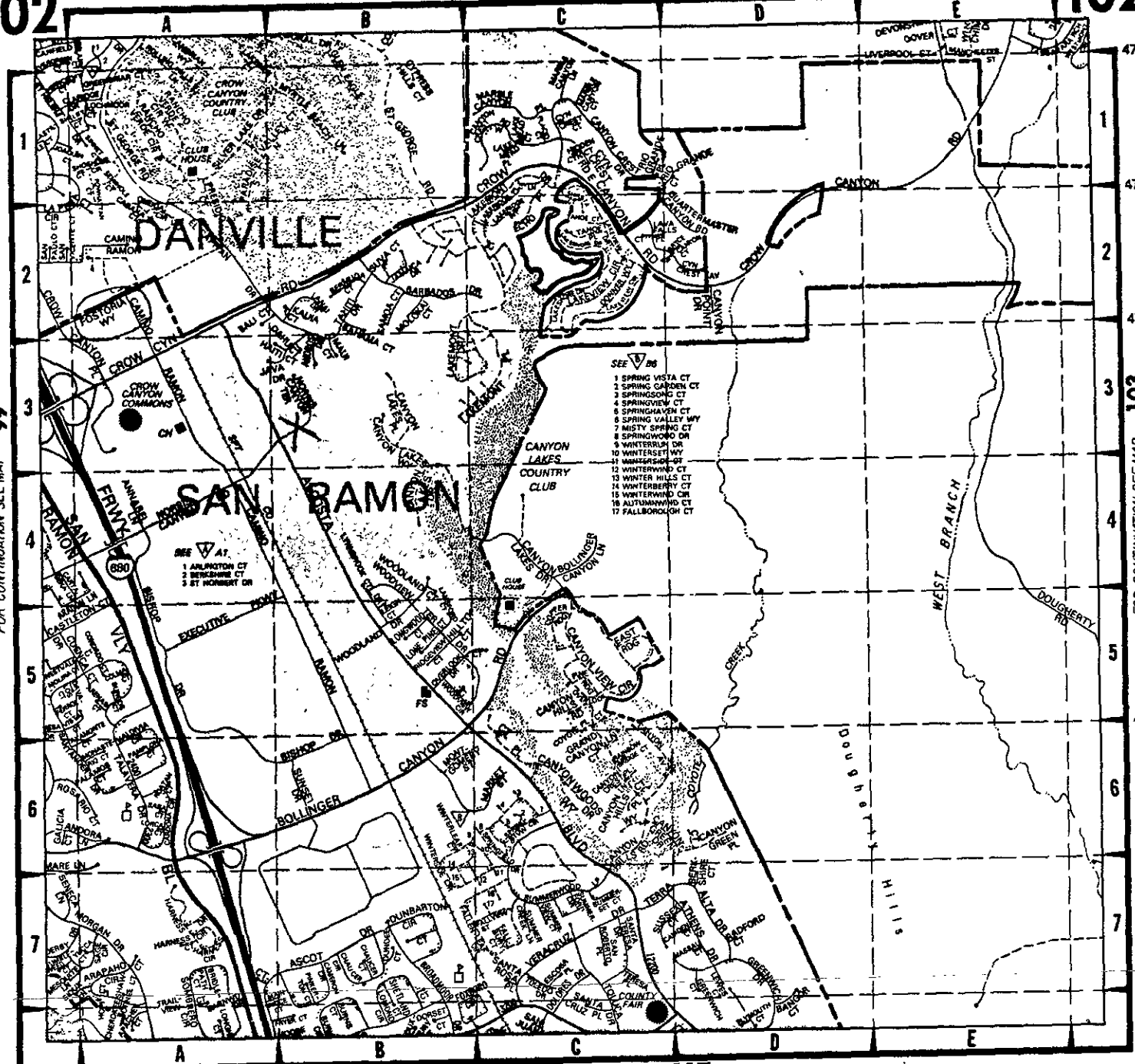
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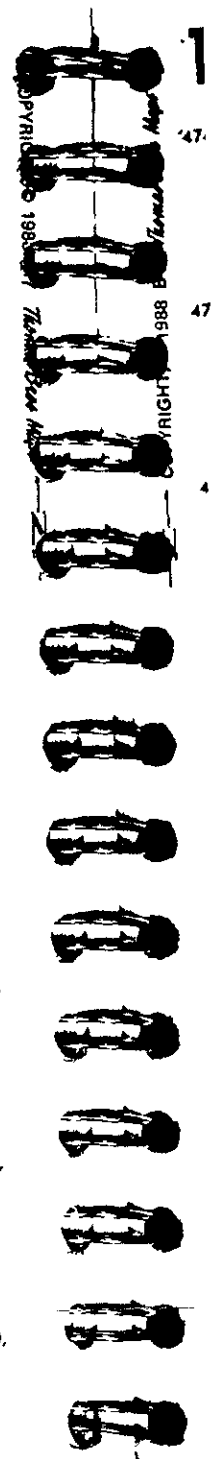
FOR CONTINUATION SEE MAP 99



- SEE ▽ DG
- 1 SPRING VISTA CT
 - 2 SPRING GARDEN CT
 - 3 SPRINGSONG CT
 - 4 SPRINGVIEW CT
 - 5 SPRINGHAVEN CT
 - 6 SPRING VALLEY WY
 - 7 MISTY SPRING CT
 - 8 SPRINGWOOD DR
 - 9 WINTERSON DR
 - 10 WINTERSET WY
 - 11 WINTERSON CT
 - 12 WINTERWIND CT
 - 13 WINTER HILLS CT
 - 14 WINTERBERRY CT
 - 15 WINTERWIND CSE
 - 16 AUTUMNWIND CT
 - 17 FALLBOROUGH CT

- SEE ▽ AT
- 1 ARLINGTON CT
 - 2 BERKSHIRE CT
 - 3 ST HENRY CT

FOR CONTINUATION SEE MAP 103



SECTION IX - PHYSICAL DATA

<u>APPROX. BOILING RANGE</u>	<u>VAPOR DENSITY</u>	<u>EVAPORATION RATE</u>	<u>% VOLATILE</u>
80 - 430 F	HEAVIER THAN AIR	SLOWER THAN ETHER	100%
<u>% SOLUBILITY IN WATER</u>	<u>SPECIFIC GRAVITY</u>	<u>APPEARANCE</u>	<u>ODOR</u>
NEGLECTIBLE	0.76	COLORLESS LIQUID	GASOLINE ODOR

SECTION X - PRECAUTIONARY LABEL

DANGER! EXTREMELY FLAMMABLE. VAPORS MAY EXPLODE. HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. ASPIRATION HAZARD, IF SWALLOWED, CAN ENTER LUNGS AND CAUSE DAMAGE. POSSIBLE CANCER HAZARD BASED ON TESTS WITH LABORATORY 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. KEEP CONTAINER CLOSED. DO NOT BREATHE VAPOR OR MIST. KEEP FACE AWAY FROM NOZZLE AND CONTAINER OPENING. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT TASTE OR SWALLOW. WASH THOROUGHLY AFTER HANDLING. NEVER SIPHON BY MOUTH. FOR USE AS MOTOR FUEL ONLY. DO NOT USE FOR ANY OTHER PURPOSE. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER OR DRILL ON OR NEAR THIS CONTAINER. "EMPTY" CONTAINER RETAINS RESIDUE (LIQUID AND/OR VAPOR) AND MAY EXPLODE IN HEAT OF A FIRE. KEEP OUT OF REACH OF CHILDREN. FAILURE TO USE CAUTION MAY CAUSE SERIOUS INJURY

SECTION XI - DOCUMENTARY INFORMATION

ISSUE DATE: 8/4/88 PREV. DATE: 11/14/85 PRODUCT CODE NO. DD4D6

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued.

HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

UNOCAL ⁷⁶

Product Name: UNOCAL UNLEADED PLUS 87 M/H GRADE
 PRODUCT CODE NO: 00406

ISSUE DATE: 8/4/88

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MANUFACTURER:

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

CONTACT FOR FURTHER INFORMATION:
 MSDS COORDINATOR (213) 877-7588

Transportation Emergencies:
 Call CHEMTREC
 (800) 424-9300 Cont. U.S.
 (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 UNLEADED PLUS 87 M/H GRADE

GENERIC NAME: UNLEADED GASOLINE

CHEMICAL FAMILY: PETROLEUM HYDROCARBON MIXTURE

DOT PROPER SHIPPING NAME: GASOLINE

ID NUMBER: 051203

SECTION I - INGREDIENTS

TLV UNITS AGENCY TYPE

	TLV UNITS	AGENCY	TYPE
GASOLINE	300.00 PPM	ACGIH	FULL TERM THA
BENZENE	1.00 PPM	OSHA	FULL TERM THA
TOLUENE	100.00 PPM 200.00 PPM	ACGIH OSHA	FULL TERM THA FULL TERM THA
XYLENE	100.00 PPM	OSHA	FULL TERM THA
N-HEXANE	50.00 PPM 500.00 PPM	ACGIH OSHA	FULL TERM THA FULL TERM THA

GASOLINE IS A COMPLEX COMBINATION OF HYDROCARBONS INCLUDING A SMALL QUANTITY OF BENZENE, TOLUENE, XYLENE AND N-HEXANE. 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:

IF IRRITATION OR REDNESS FROM EXPOSURE TO VAPORS DEVELOPS, MOVE VICTIM AWAY FROM EXPOSURE AND INTO FRESH AIR. IF IRRITATION OR REDNESS PERSISTS, SEEK MEDICAL ATTENTION. FOR DIRECT CONTACT, HOLD EYELIDS APART AND FLUSH THE AFFECTED EYE(S) WITH CLEAN WATER. SEEK MEDICAL ATTENTION.

SKIN CONTACT:

WIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY WASHING WITH MILD SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANSER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

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

INGESTION (SWALLOWING):

ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. IF VICTIM IS DROWSY OR UNCONSCIOUS, PLACE ON THE LEFT SIDE WITH THE HEAD DOWN. IF POSSIBLE, DO NOT LEAVE VICTIM UNATTENDED. SEEK MEDICAL ATTENTION.

NO SUB-SECTION TITLE

NOTE TO PHYSICIANS: EXPOSURE TO HIGH CONCENTRATIONS OF THIS MATERIAL (E.G., IN ENCLOSED SPACES OR WITH DELIBERATE ABUSE) MAY BE ASSOCIATED WITH CARDIAC ARRHYTHMIAS. EPINEPHRINE AND OTHER SYMPATHOMIMETIC DRUGS MAY INITIATE CARDIAC ARRHYTHMIAS IN PERSONS EXPOSED TO THIS MATERIAL. OTHER DRUGS WITH LESS ARRHYTHMOGENIC POTENTIAL SHOULD BE CONSIDERED. IF SYMPATHOMIMETIC DRUGS ARE ADMINISTERED, OBSERVE FOR THE DEVELOPMENT OF ARRHYTHMIAS.

SECTION III - POTENTIAL ADVERSE HEALTH EFFECTS

EYE CONTACT:

THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT WITH THE LIQUID OR EXPOSURE TO VAPORS OR MISTS MAY CAUSE BURNING, TEARING AND REDNESS.

SKIN CONTACT:

THIS MATERIAL MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE TO THIS MATERIAL MAY CAUSE REDNESS, BURNING, AND DRYING AND CRACKING OF THE SKIN. CONTACT MAY RESULT IN SKIN ABSORPTION BUT SYMPTOMS OF TOXICITY ARE NOT ANTICIPATED BY THIS ROUTE ALONE UNDER NORMAL CONDITIONS OF USE. PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

INHALATION (BREATHING):

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, BREATHING VAPORS OR MISTS MAY CAUSE FLUSHING, BLURRED VISION, NAUSEA, HEADACHE AND SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DIZZINESS, DROWSINESS, LOSS OF COORDINATION AND FATIGUE). EXPOSURE TO HIGH CONCENTRATIONS MAY CAUSE LOSS OF CONSCIOUSNESS, CONVULSIONS, RESPIRATORY COLLAPSE AND DEATH. RESPIRATORY SYMPTOMS ASSOCIATED WITH PRE-EXISTING LUNG DISORDERS (E.G., ASTHMA-LIKE CONDITIONS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL.

INGESTION (SWALLOWING):

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

SECTION III - POTENTIAL ADVERSE HEALTH EFFECTS

COMMENTS:

GASOLINE IS A POSSIBLE CANCER HAZARD BASED ON TESTS IN LABORATORY ANIMALS. FOLLOWUP STUDIES SUGGEST THAT THIS MAY BE A UNIQUE EFFECT IN MALE RATS. BENZENE, A COMPONENT OF THIS PRODUCT, IS A KNOWN CANCER (LEUKEMIA) HAZARD. RESULTS OF TESTS IN HUMANS HAVE SHOWN THAT EXPOSURE TO BENZENE CAN CAUSE IRREVERSIBLE CHANGES IN THE GENETIC MATERIAL (DNA) OF A CELL. THE HUMAN HEALTH CONSEQUENCES OF THESE CHANGES IS NOT FULLY UNDERSTOOD. BENZENE, BUT NOT GASOLINE, HAS BEEN IDENTIFIED AS A CARCINOGEN BY IARC, NTP AND OSHA. THERE IS INSUFFICIENT EVIDENCE TO SHOW THAT GASOLINE POSES ANY HAZARD RELATED TO ITS LOW BENZENE CONTENT. PERSONS WITH PRE-EXISTING HEART DISORDERS MAY BE MORE SUSCEPTIBLE TO IRREGULAR HEARTBEATS (ARRHYTHMIAS) IF EXPOSED TO HIGH CONCENTRATIONS OF THIS MATERIAL (SEE SECTION II COMMENTS - NOTE TO PHYSICIANS).

SECTION IV - SPECIAL PROTECTION INFORMATION

VENTILATION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I), ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED. WHERE 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 (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 AND POSSIBLE IRRITATION.

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 WORK AREA FOR FLUSHING EYES AND SKIN. IMPERVIOUS CLOTHING SHOULD BE WORN AS NEEDED.

SECTION V - REACTIVITY DATA

STABILITY:

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.

SECTION V - REACTIVITY DATA

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION VI - SPILL OR LEAK PROCEDURES

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

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 AWAY FROM SPILL. KEEP OUT OF DRAINS, SEWERS OR WATERWAYS. SPILLED MATERIAL MAY BE ABSORBED INTO AN APPROPRIATE ABSORBANT. CONTACT FIRE AUTHORITIES AND APPROPRIATE FEDERAL, STATE OR LOCAL AGENCIES. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY THE NATIONAL RESPONSE CENTER (PHONE NUMBER 800-424-8802).

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 DIRECT 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 WORK AREA FREE OF HOT METAL SURFACES AND OTHER SOURCES OF IGNITION. AVOID INHALATION OF VAPORS AND PERSONAL CONTACT WITH THE PRODUCT. WASH THOROUGHLY AFTER HANDLING. LAUNDRER SATURATED CLOTHING BEFORE WEARING.

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

		HAZARD RANKING		
NFPA HAZARD CLASS	HEALTH HAZARD: 2	0 = LEAST	DOT FLAMMABILITY CLASSIFICATION	FLASH POINT
	FLAMMABILITY: 3	1 = SLIGHT		
	REACTIVITY: 0	2 = MODERATE		
	OTHER:	3 = HIGH		
		4 = EXTREME	FLAMMABLE LIQUID	-45 TCC F

EXTINGUISHING MEDIA:

THE USE OF DRY CHEMICAL, FOAM OR CO2 IS RECOMMENDED. WATER 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. WATER SPRAY MAY BE USEFUL IN MINIMIZING VAPORS AND COOLING CONTAINERS EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK.