
93002 NATURAL GAS

TEXACO

Revised: 12/8/1995

Primary CAS: 74-82-8

Filename: 005506

Hazard Ratings

NFPA Health - 0 Flammability - 4 Reactivity - 0 Other -
HMIS Health - 0 Flammability - 4 Reactivity - 0 PPE -

This product is also known as

N/A

Other Information

N/A

Ingredients

METHANE	74-82-8	95 to 99.99%
ETHANE	74-84-0	3 to 9.99%

Locations

N/A

MSDS

Material Safety Data Sheet

TEXACO

MATERIAL SAFETY DATA SHEET

THIS MSDS WAS PRINTED UTILIZING ACCESS TO TEXACO'S CD-ROM MSDS DATABASE. DUE TO VARIATIONS IN PRINTER DEPENDENT CHARACTER STYLES, FONTS AND COMPUTER CONTROL CODES, THE APPEARANCE MAY DIFFER FROM THAT OF THE CENTRALLY PRINTED TEXACO MSDS.

NOTE:

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

PRODUCT CODE AND NAME:

93002 NATURAL GAS

CHEMICAL NAME AND/OR FAMILY OR DESCRIPTION:

PETROLEUM HYDROCARBON MIXTURE

MANUFACTURER'S NAME AND ADDRESS:

TEXACO TRADING & TRANSPORTATION INC.

1670 BROADWAY

DENVER, COLORADO 80202

TELEPHONE NUMBERS:

TRANSPORTATION EMERGENCY-COMPANY	:	(914) 831-3400
CHEMTREC	:	(800) 424-9300
HEALTH EMERGENCY -COMPANY	:	(914) 831-3400
GENERAL MSDS ASSISTANCE	:	(914) 838-7204
TECHNICAL INFORMATION -FUELS	:	(914) 838-7336
-CHEMICAL	:	(512) 459-6543
-LUBRICANT/	:	(800) 782-7852
ANTIFREEZES	:	
-ADDITIVES	:	(713) 235-6278
-SOLVENTS	:	(800) 876-3738

2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

PRODUCT AND/OR COMPONENT(S) CARCINOGENIC ACCORDING TO:

OSHA	IARC	NTP	OTHER	NONE
-	-	-	-	X

COMPOSITION: (SEQUENCE NUMBER AND CHEMICAL NAME)

SEQ.	CHEMICAL NAME	CAS NUMBER	RANGE IN %
01 *	METHANE	74-82-8	95.00-99.99
02 *	ETHANE	74-84-0	3.00-9.99

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).

* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

EXPOSURE LIMITS REFERENCED BY SEQUENCE NUMBER IN THE COMPOSITION SECTION
SEQ. LIMIT
NONE

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE:
COLORLESS GAS

ODOR:
PETROLEUM ODOR

WARNING STATEMENT

DANGER !
FLAMMABLE GAS - MAY CAUSE FLASH FIRE
DELAYED EVAPORATION FROM CONTAMINATED CLOTHING MAY BE
A FIRE HAZARD
LIQUID MAY CAUSE FROSTBITE
GAS REDUCES OXYGEN AVAILABLE FOR BREATHING
GAS MAY ACCUMULATE IN CONFINED SPACES AND CAUSE SUFFOCATION

HMIS

HEALTH: 0
FLAMMABILITY: 4
REACTIVITY: 0
SPECIAL : -

NFPA

HEALTH: 0
FLAMMABILITY: 4
REACTIVITY: 0
SPECIAL : -

POTENTIAL HEALTH EFFECTS

	EYE	SKIN	INHALATION	INGESTION
PRIMARY ROUTE OF EXPOSURE:	X	X	X	-
	-	-	-	-

EFFECTS OF OVEREXPOSURE

ACUTE:

EYES:

EYE CONTACT WITH LIQUID PRODUCT OR GAS UNDER PRESSURE CAN CAUSE FROSTBITE (COLD BURNS).

SKIN:

BRIEF CONTACT IS NOT IRRITATING.

OTHER THAN THE POTENTIAL SKIN IRRITATION EFFECTS NOTED ABOVE, ACUTE (SHORT TERM) ADVERSE EFFECTS ARE NOT EXPECTED FROM BRIEF SKIN CONTACT; SEE OTHER EFFECTS, BELOW, AND SECTION 11 FOR INFORMATION REGARDING POTENTIAL LONG TERM EFFECTS.

SKIN CONTACT WITH LIQUID PRODUCT CAN CAUSE FROSTBITE (COLD BURNS).

INHALATION:

GAS MAY CAUSE IRRITATION OF THE NOSE AND THROAT, HEADACHE, NAUSEA, AND DROWSINESS.

INGESTION:

PRODUCT IS A GAS - NOT EXPECTED TO CAUSE TOXIC EFFECTS DUE TO INGESTION.

THIS MATERIAL IS A GAS. GAS OR LIQUID UNDER PRESSURE MAY CAUSE FROSTBITE (COLD BURNS).

SENSITIZATION PROPERTIES:

UNKNOWN.

CHRONIC:

NO ADVERSE EFFECTS HAVE BEEN DOCUMENTED IN HUMANS AS A RESULT OF CHRONIC EXPOSURE. SECTION 11 MAY CONTAIN APPLICABLE ANIMAL DATA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

THERE IS NO EVIDENCE THAT THIS PRODUCT AGGRAVATES AN EXISTING MEDICAL CONDITION.

OTHER REMARKS:

NONE

4. FIRST AID MEASURES

EYES:

FLUSH EYES WITH PLENTY OF WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF EYE IRRITATION PERSISTS.

SKIN:

WASH SKIN WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS OR PERSISTS.

IN CASE OF COLD BURN, IMMEDIATELY PLACE AFFECTED AREA IN WARM WATER (105 F) AND KEEP AT THIS TEMPERATURE UNTIL CIRCULATION RETURNS. GET MEDICAL ATTENTION.

IF CLOTHING BECOMES WETTED, DRENCH INDIVIDUAL WITH WATER AND REMOVE CONTAMINATED CLOTHING IF POSSIBLE. SLOWLY WARM AFFECTED AREA OF SKIN.

INGESTION:

NO EMERGENCY CARE ANTICIPATED. THIS MATERIAL IS A GAS AT STANDARD TEMPERATURE AND PRESSURE.

INHALATION:

IF IRRITATION, HEADACHE, NAUSEA, OR DROWSINESS OCCURS, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRATORY IRRITATION PERSISTS.

OTHER INSTRUCTIONS:

THIS MATERIAL IS AN ASPHYXIANT WHICH MAY HAVE ANESTHETIC PROPERTIES AT HIGH CONCENTRATIONS. IF PRESENT IN SUFFICIENT CONCENTRATIONS TO REDUCE THE OXYGEN LEVEL BELOW 18% IN INHALED AIR, RAPID RESPIRATION, MENTAL DULLNESS, INCOORDINATION, POOR JUDGEMENT, NAUSEA, AND UNCONSCIOUSNESS MAY RESULT. OXYGEN DEFICIENCY MAY OCCUR WITHOUT WARNING IN AREAS WHERE THIS GAS MAY DISPLACE AIR.

OVEREXPOSURE TO THIS MATERIAL MAY SENSITIZE THE HEART TO CATECHOLAMINE-INDUCED ARRHYTHMIAS. DO NOT ADMINISTER CATECHOLAMINES TO OVEREXPOSED INDIVIDUALS. CONTACT A POISON CONTROL CENTER FOR FURTHER TREATMENT INFORMATION.

5. FIRE-FIGHTING MEASURES

IGNITION TEMPERATURE - AIT (DEGREES F):
1100

FLASH POINT (DEGREES F):
NOT APPLICABLE.

FLAMMABLE LIMITS (%):
LOWER: 3
UPPER: 30

RECOMMENDED FIRE EXTINGUISHING AGENTS AND SPECIAL PROCEDURES:
FIGHT FIRE FROM PROTECTED LOCATION OR MAXIMUM POSSIBLE DISTANCE. STOP FLOW OF GAS BEFORE ATTEMPTING TO EXTINGUISH FLAMES. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONS ATTEMPTING TO STOP THE FLOW OF GAS. USE FLOODING QUANTITIES OF WATER AS FOG OR SPRAY. USE DRY CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH FLAMES.

UNUSUAL OR EXPLOSIVE HAZARDS:
EXTREMELY FLAMMABLE, CAN BE IGNITED BY HEAT, SPARK, OR FLAME.

DANGER! READILY FORMS EXPLOSIVE AIR-VAPOR MIXTURES; MAY RELEASE EXPLOSIVE VAPORS THAT TRAVEL, BE IGNITED AT REMOTE LOCATIONS, AND FLASH BACK. CONTAINERS MAY EXPLODE IN FIRE. DO NOT EXPOSE TO HEAT, SPARKS, FLAME, STATIC, OR OTHER SOURCES OF IGNITION. WHEN HANDLING, USE NON-SPARKING TOOL, GROUND AND BOND ALL CONTAINERS.

EXTINGUISHING MEDIA WHICH MUST NOT BE USED:
NOT DETERMINED.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:
NO SPECIAL EQUIPMENT OR PROCEDURES REQUIRED.

6. ACCIDENTAL RELEASE (TRANSPORT. SPILLS:CHEMTREC (800)424-9300)

PROCEDURES IN CASE OF ACCIDENTAL RELEASE, BREAKAGE OR LEAKAGE:
ELIMINATE ALL IGNITION SOURCES INCLUDING INTERNAL COMBUSTION ENGINES AND POWER TOOLS. VENTILATE AREA. KEEP PEOPLE AWAY. STAY UPWIND AND WARN OF POSSIBLE DOWNWIND EXPLOSION HAZARD. AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. PRESSURE DEMAND AIR SUPPLIED RESPIRATORS SHOULD ALWAYS BE WORN WHEN THE AIRBORNE CONCENTRATION OF THE CONTAMINANT OR OXYGEN IS UNKNOWN. OTHERWISE, WEAR RESPIRATORY PROTECTION AND OTHER PERSONAL PROTECTIVE EQUIPMENT AS APPROPRIATE FOR THE POTENTIAL EXPOSURE HAZARD.

IF MORE THAN 125,000 POUNDS OF PRODUCT IS SPILLED, THEN REPORT SPILL ACCORDING TO SARA 304 AND/OR CERCLA 102(A) REQUIREMENTS, UNLESS PRODUCT QUALIFIES FOR THE PETROLEUM EXEMPTION (CERCLA SECTION 101(14)).

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING:
USE SPARK-PROOF TOOLS. MATERIAL MAY BE AT ELEVATED TEMPERATURES AND/OR PRESSURES. EXERCISE CARE WHEN OPENING BLEEDERS AND SAMPLING PORTS. EYE WASH AND SAFETY SHOWER SHOULD BE AVAILABLE NEARBY WHEN THIS PRODUCT IS HANDLED OR USED.

STORAGE:
GROUND AND BOND SHIPPING CONTAINER, TRANSFER LINE, AND RECEIVING CONTAINER. KEEP AWAY FROM HEAT, SPARKS, FLAME, AND OTHER SOURCES OF IGNITION.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT (TYPE)

EYE/FACE PROTECTION:

SAFETY GLASSES, CHEMICAL TYPE GOGGLES, OR FACE SHIELD RECOMMENDED TO PREVENT EYE CONTACT.

SKIN PROTECTION:

PROTECTIVE CLOTHING SUCH AS COVERALLS OR LAB COATS SHOULD BE WORN. LAUNDRER OR DRY-CLEAN WHEN SOILED. GLOVES AND BOOTS RESISTANT TO CHEMICALS AND PETROLEUM DISTILLATES REQUIRED. INSULATED GLOVES ALSO REQUIRED IF CONTACT WITH LIQUID-COOLED PRODUCT OR EQUIPMENT IS EXPECTED.

RESPIRATORY PROTECTION:

AIRBORNE CONCENTRATIONS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. IF VAPOR, MIST OR DUST IS GENERATED AND THE OCCUPATIONAL EXPOSURE LIMIT OF THE PRODUCT, OR ANY COMPONENT OF THE PRODUCT, IS EXCEEDED, USE APPROPRIATE NIOSH OR MSHA APPROVED AIR PURIFYING OR AIR SUPPLIED RESPIRATOR AFTER DETERMINING THE AIRBORNE CONCENTRATION OF THE CONTAMINANT. AIR SUPPLIED RESPIRATORS SHOULD ALWAYS BE WORN WHEN AIRBORNE CONCENTRATION OF THE CONTAMINANT OR OXYGEN CONTENT IS UNKNOWN.

VENTILATION:

LOCAL EXHAUST VENTILATION RECOMMENDED IF GENERATING VAPOR, DUST, OR MIST. IF EXHAUST VENTILATION IS NOT AVAILABLE OR INADEQUATE, USE MSHA OR NIOSH APPROVED RESPIRATOR AS APPROPRIATE.

EXPOSURE LIMIT FOR TOTAL PRODUCT:

SIMPLE ASPHYXIAN - HAS POOR WARNING PROPERTIES AND CAN DISPLACE AIR CAUSING AN OXYGEN DEFICIENCY. MAINTAIN 19.5% OXYGEN (BY VOLUME) IN CONFINED SPACES.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

COLORLESS GAS

ODOR:

PETROLEUM ODOR

BOILING POINT (DEGREES F):

31

MELTING/FREEZING POINT (DEGREES F):

NOT APPLICABLE.

SPECIFIC GRAVITY (WATER=1):

.58

PH OF UNDILUTED PRODUCT:

NOT APPLICABLE.

VAPOR PRESSURE:

2 MMHG AT 66.0

VISCOSITY:

NOT APPLICABLE.

VOC CONTENT:

VAPOR DENSITY (AIR=1):

2.1

SOLUBILITY IN WATER (%):

.1 - 1

OTHER: NONE

10. STABILITY AND REACTIVITY

THIS MATERIAL REACTS VIOLENTLY WITH:

(IF OTHERS IS CHECKED BELOW, SEE COMMENTS FOR DETAILS)

AIR	WATER	HEAT	STRONG OXIDIZERS	OTHERS	NONE OF THESE
		X	X		
-	-	-	-	-	-

COMMENTS:

THIS PRODUCT MAY CONTAIN UP TO 80 PPM BENZENE IN RAW NATURAL GAS. NO BENZENE DETECTED IN PROCESSED NATURAL GAS.

PRODUCTS EVOLVED WHEN SUBJECTED TO HEAT OR COMBUSTION:

TOXIC LEVELS OF CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING ALDEHYDES AND KETONES.

HAZARDOUS POLYMERIZATIONS: DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

MEDIAN LETHAL DOSE

ORAL:

LD50 BELIEVED TO BE > 5.00 G/KG (RAT) PRACTICALLY NON-TOXIC

INHALATION:

NOT DETERMINED.

DERMAL:

LD50 BELIEVED TO BE > 2.00 G/KG (RABBIT) PRACTICALLY NON-TOXIC

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

SKIN:

(DRAIZE) BELIEVED TO BE < .50 /8.0 (RABBIT) NO APPRECIABLE EFFECT

EYES:

(DRAIZE) BELIEVED TO BE < 15.00 /110 (RABBIT) NO APPRECIABLE EFFECT

SENSITIZATION:

NOT DETERMINED.

OTHER:

NONE

12. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:

THIS PRODUCT (AS PRESENTLY CONSTITUTED) HAS THE RCRA CHARACTERISTICS OF IGNITABILITY, AND, IF DISCARDED IN ITS PRESENT FORM, WOULD HAVE THE HAZARDOUS WASTE NUMBER OF D001. UNDER RCRA, IT IS THE RESPONSIBILITY OF THE USER OF THE PRODUCT TO DETERMINE, AT THE TIME OF DISPOSAL, WHETHER THE PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE. THIS IS BECAUSE PRODUCT USES, TRANSFORMATIONS, MIXTURES, PROCESSES, ETC. MAY CHANGE THE CLASSIFICATION TO NON-HAZARDOUS, OR HAZARDOUS FOR REASONS OTHER THAN, OR IN ADDITION TO IGNITABILITY.

REMARKS:

DO NOT ALLOW TO ENTER DRAINS OR SEWERS. CAN CAUSE EXPLOSION.

13. TRANSPORT INFORMATION

TRANSPORTATION
DOT:

PROPER SHIPPING NAME:
NATURAL GAS, REFRIGERATED LIQUID
HAZARD CLASS:
2.1
IDENTIFICATION NUMBER: UN 1972
PACKING GROUP:
LABEL REQUIRED:
FLAMMABLE GAS

IMDG:
PROPER SHIPPING NAME:
NOT EVALUATED

ICAO:
PROPER SHIPPING NAME:
NOT EVALUATED

TDG:
PROPER SHIPPING NAME:
NOT EVALUATED

14. REGULATORY INFORMATION

FEDERAL REGULATIONS:
SARA TITLE III:
SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCES
SEQ. CHEMICAL NAME CAS NUMBER RANGE IN %
NONE

SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCES (CONT)
SEQ. TPQ RQ
NONE

SECTION 311 HAZARDOUS CATEGORIZATION:
ACUTE CHRONIC FIRE PRESSURE REACTIVE N/A
X
- - - - - -

SECTION 313 TOXIC CHEMICAL
CHEMICAL NAME CAS NUMBER CONCENTRATION
NONE

CERCLA 102(A)/DOT HAZARDOUS SUBSTANCES: (+ INDICATES DOT HAZARDOUS SUBSTANCE)
SEQ. CHEMICAL NAME CAS NUMBER RANGE IN %
01+ BENZENE 71-43-2 0.008

CERCLA/DOT HAZARDOUS SUBSTANCES (SEQUENCE NUMBERS AND RQ'S):
SEQ. RQ
01+ 10

TSCA INVENTORY STATUS:
THIS PRODUCT, OR ITS COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE TOXIC
SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY.

OTHER:
NONE.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: THE FOLLOWING DETECTABLE COMPONENTS OF THIS PRODUCT ARE SUBSTANCES, OR BELONG TO CLASSES OF SUBSTANCES, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY.

CHEMICAL NAME	CAS NUMBER
BENZENE	71-43-2

STATES RIGHT-TO-KNOW REGULATIONS:

CHEMICAL NAME	STATE RIGHT-TO-KNOW
METHANE	CT, IL, MA, NJ, PA, RI
ETHANE	CT, IL, MA, NJ, PA, RI

STATE LIST: CT (CONNECTICUT), FL (FLORIDA), IL (ILLINOIS), MI (MICHIGAN), LA (LOUISIANA), MA (MASSACHUSETTS), NJ (NEW JERSEY), PA (PENNSYLVANIA), RI (RHODE ISLAND)

INTERNATIONAL REGULATIONS:

WHMIS CLASSIFICATION:

NOT DETERMINED

CANADA INVENTORY STATUS:

THIS PRODUCT, OR ITS COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE CANADIAN DOMESTIC SUBSTANCE LIST (DSL).

EINECS INVENTORY STATUS:

THIS PRODUCT, OR ITS COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS) OR THE EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS).

AUSTRALIA INVENTORY STATUS:

THIS PRODUCT, OR ITS COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS).

JAPAN INVENTORY STATUS:

THIS PRODUCT, OR ITS COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE JAPANESE MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY (MITI) INVENTORY.

15. ENVIRONMENTAL INFORMATION

AQUATIC TOXICITY:

NOT DETERMINED.

MOBILITY:

NOT DETERMINED.

PERSISTENCE AND BIODEGRADABILITY:

NOT DETERMINED.

POTENTIAL TO BIOACCUMULATE:

NOT DETERMINED.

REMARKS:

NONE

16. OTHER INFORMATION

DISPOSE OF AS A VAPOR, VENTING TO SUITABLE COMBUSTION CHAMBER.

THE INFORMATION BELOW IS GIVEN TO CALL ATTENTION TO THE ISSUE OF "NATURALLY OCCURRING RADIOACTIVE MATERIALS". ALTHOUGH RADON-222 LEVELS IN THIS PRODUCT DO NOT PRESENT ANY DIRECT RADON EXPOSURE, CUSTOMERS SHOULD BE AWARE OF THE POTENTIAL OF RADON DAUGHTER PRODUCT BUILDUP WITHIN THEIR PROCESSING STREAMS WHATEVER THE SOURCE OF THEIR PRODUCT STREAMS. RADON-222 IS A NATURALLY OCCURRING RADIOACTIVE GAS WHICH CAN BE A CONTAMINANT IN NATURAL GAS. DURING SUBSEQUENT PROCESSING, RADON TENDS TO BE CONCENTRATED IN THE LIQUIFIED PETROLEUM GAS STREAM AND IN PRODUCT STREAMS HAVING A SIMILAR BOILING POINT RANGE. INDUSTRY EXPERIENCE HAS SHOWN THAT THIS PRODUCT MAY CONTAIN SMALL AMOUNTS OF RADON-222 AND ITS RADIOACTIVE DECAY PRODUCTS, CALLED RADON "DAUGHTERS". THE ACTUAL CONCENTRATION OF RADON-222 AND RADIOACTIVE DAUGHTERS IN THE PROCESS EQUIPMENT (IE LINES, FILTERS, PUMPS AND REACTOR UNITS) MAY ACCUMULATE SIGNIFICANT LEVELS OF RADIOACTIVE DAUGHTERS AND SHOW A GAMMA RADIATION READING DURING OPERATION. A POTENTIAL EXTERNAL RADIATION HAZARD EXISTS AT OR NEAR ANY PIPE, VALVE OR VESSEL CONTAINING A RADON-ENRICHED STREAM OR CONTAINING INTERNAL DEPOSITS OF RADIOACTIVE MATERIAL, DUE TO THE TRANSMISSION OF GAMMA RADIATION THROUGH ITS WALL.

FIELD STUDIES IN THE LITERATURE AND CONDUCTED BY COMPANY PERSONNEL AT SELECTED SITES, HAVE NOT SHOWN ANY CONDITIONS THAT SUBJECT WORKERS TO CUMULATIVE EXPOSURES IN EXCESS OF GENERAL POPULATION LIMITS. EQUIPMENT EMITTING GAMMA RADIATION SHOULD BE PRESUMED TO BE INTERNALLY CONTAMINATED WITH ALPHA-EMITTING DECAY PRODUCTS WHICH MAY BE A HAZARD IF INHALED OR INGESTED. DURING MAINTENANCE OPERATIONS THAT REQUIRE THE OPENING OF CONTAMINATED PROCESS EQUIPMENT, THE FLOW OF GAS SHOULD BE STOPPED AND A FOUR HOUR DELAY ENFORCED TO ALLOW THE GAMMA RADIATION TO DROP TO BACKGROUND LEVELS. PROTECTIVE EQUIPMENT E.G. COVERALLS, GLOVES AND RESPIRATOR (NIOSH/MSHA APPROVED FOR HIGH EFFICIENCY PARTICULATES AND RADIONUCLIDES, OR SUPPLIED AIR) SHOULD BE WORN BY PERSONNEL ENTERING A VESSEL OR WORKING ON CONTAMINATED PROCESS EQUIPMENT TO PREVENT SKIN CONTAMINATION, INGESTION OR INHALATION OF ANY RESIDUE CONTAINING ALPHA RADIATION. AIRBORNE CONTAMINATION MAY BE MINIMIZED BY HANDLING SCALE AND/OR CONTAMINATED MATERIALS IN A WET STATE.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF TEXACO'S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL TEXACO PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

DATE: 12-08-95 NEW X REVISED, SUPERSEDES: 11-15-95

INQUIRIES REGARDING MSDS SHOULD BE DIRECTED TO:
TEXACO INC.
MANAGER, PRODUCT SAFETY
P.O. BOX 509
BEACON, N.Y. 12508

PLEASE SEE BELOW FOR PRODUCT LABEL

17. PRODUCT LABEL LABEL DATE: 12-08-95

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

93002 NATURAL GAS
WARNING STATEMENT

DANGER !

FLAMMABLE GAS - MAY CAUSE FLASH FIRE
DELAYED EVAPORATION FROM CONTAMINATED CLOTHING MAY BE
A FIRE HAZARD
LIQUID MAY CAUSE FROSTBITE
GAS REDUCES OXYGEN AVAILABLE FOR BREATHING
GAS MAY ACCUMULATE IN CONFINED SPACES AND CAUSE SUFFOCATION

PRECAUTIONARY MEASURES

-KEEP AWAY FROM HEAT, SPARKS OR FLAME.
-USE ONLY WITH ADEQUATE VENTILATION.
-DO NOT ENTER STORAGE AREAS OR CONFINED SPACES UNLESS
ADEQUATELY VENTILATED.
-USE SUPPLIED AIR RESPIRATORY PROTECTION FOR CLEANING LARGE SPILLS OR UPON ENTRY
INTO TANKS, VESSELS, OR OTHER CONFINED SPACES.
-AVOID BREATHING VAPOR, MIST, OR GAS.
-RESCUE PROCEDURES SHOULD BE ATTEMPTED ONLY AFTER NOTIFYING
OTHERS OF EMERGENCY AND ONLY IF APPROPRIATE PERSONAL EQUIPMENT IS AVAILABLE.
-WEAR INSULATED GLOVES IF CONTACT WITH LIQUID COOLED EQUIPMENT IS EXPECTED.
-KEEP CONTAINER CLOSED.
-WORKERS SHOULD WASH EXPOSED SKIN SEVERAL TIMES DAILY WITH SOAP AND WATER.

FIRST AID

EYE CONTACT:

FLUSH EYES WITH PLENTY OF WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF
EYE IRRITATION PERSISTS.

SKIN CONTACT:

WASH SKIN WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. GET MEDICAL
ATTENTION IF SKIN IRRITATION DEVELOPS OR PERSISTS.

IN CASE OF COLD BURN, IMMEDIATELY PLACE AFFECTED AREA IN WARM WATER (105 F) AND
KEEP AT THIS TEMPERATURE UNTIL CIRCULATION RETURNS. GET MEDICAL ATTENTION.

IF CLOTHING BECOMES WETTED, DRENCH INDIVIDUAL WITH WATER AND REMOVE
CONTAMINATED CLOTHING IF POSSIBLE. SLOWLY WARM AFFECTED AREA OF SKIN.

INGESTION:

NO EMERGENCY CARE ANTICIPATED. THIS MATERIAL IS A GAS AT STANDARD TEMPERATURE
AND PRESSURE.

INHALATION:

IF IRRITATION, HEADACHE, NAUSEA, OR DROWSINESS OCCURS, REMOVE TO FRESH AIR. GET
MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRATORY IRRITATION
PERSISTS.

NOTE TO PHYSICIAN:

THIS MATERIAL IS AN ASPHYXIANT WHICH MAY HAVE ANESTHETIC PROPERTIES AT HIGH
CONCENTRATIONS. IF PRESENT IN SUFFICIENT CONCENTRATIONS TO REDUCE THE OXYGEN
LEVEL BELOW 18% IN INHALED AIR, RAPID RESPIRATION, MENTAL DULLNESS,
INCOORDINATION, POOR JUDGEMENT, NAUSEA, AND UNCONSCIOUSNESS MAY RESULT. OXYGEN
DEFICIENCY MAY OCCUR WITHOUT WARNING IN AREAS WHERE THIS GAS MAY DISPLACE AIR.

OVEREXPOSURE TO THIS MATERIAL MAY SENSITIZE THE HEART TO CATECHOLAMINE-INDUCED ARRHYTHMIAS. DO NOT ADMINISTER CATECHOLAMINES TO OVEREXPOSED INDIVIDUALS. CONTACT A POISON CONTROL CENTER FOR FURTHER TREATMENT INFORMATION.

FIRE

IN CASE OF FIRE, USE WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE ON FLAMES. USE WATER SPRAY TO KEEP CONTAINERS COOL AND PROTECT PERSONNEL ATTEMPTING TO STOP THE LEAK.

IF MORE THAN 125,000 POUNDS OF PRODUCT IS SPILLED, THEN REPORT SPILL ACCORDING TO SARA 304 AND/OR CERCLA 102(A) REQUIREMENTS, UNLESS PRODUCT QUALIFIES FOR THE PETROLEUM EXEMPTION (CERCLA SECTION 101(14)).

CHEMICAL NAME	CAS NUMBER	RANGE IN %
* METHANE	74-82-8	95.00-99.99
* ETHANE	74-84-0	3.00-9.99

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).

* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCE(S)	CAS NUMBER	RANGE IN %
NONE		

HMIS

HEALTH:

0

FLAMMABILITY: 4

REACTIVITY: 0

SPECIAL : -

NFPA

HEALTH: 0

FLAMMABILITY: 4

REACTIVITY: 0

SPECIAL : -

TRANSPORTATION

DOT:

PROPER SHIPPING NAME:

NATURAL GAS, REFRIGERATED LIQUID

HAZARD CLASS:

2.1

IDENTIFICATION NUMBER: UN 1972

PACKING GROUP:

LABEL REQUIRED:

FLAMMABLE GAS

CAUTION:

MISUSE OF EMPTY CONTAINERS CAN BE HAZARDOUS. EMPTY CONTAINERS CAN BE HAZARDOUS IF USED TO STORE TOXIC, FLAMMABLE, OR REACTIVE MATERIALS. CUTTING OR WELDING OF EMPTY CONTAINERS MIGHT CAUSE FIRE, EXPLOSION OR TOXIC FUMES FROM RESIDUES. DO NOT PRESSURIZE OR EXPOSE TO OPEN FLAME OR HEAT. KEEP CONTAINER CLOSED AND DRUM BUNGS IN PLACE.

MANUFACTURER'S NAME AND ADDRESS:

TEXACO TRADING & TRANSPORTATION INC.

1670 BROADWAY

DENVER, COLORADO 80202

TRANSPORTATION EMERGENCY COMPANY: (914) 831-3400

CHEMTREC: (800) 424-9300

HEALTH EMERGENCY

COMPANY: (914) 831-3400