
LIQUEFIED NATURAL GAS (LNG)

EXXON MOBIL

Revised: 2/28/2003

Primary CAS: 74-82-8

Filename: 007077

Hazard Ratings

NFPA	Health - 1	Flammability - 4	Reactivity - 0	Other -
HMIS	Health -	Flammability -	Reactivity -	PPE -

This product is also known as

N/A

Other Information

N/A

Ingredients

N/A

Locations

National Grid

MSDS

Material Safety Data Sheet

MATERIAL SAFETY DATA

BULLETIN

EXXON MOBIL

269100-00 LIQUEFIED NATURAL GAS (LNG)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LIQUEFIED NATURAL GAS (LNG)

SUPPLIER:

EXXON MOBIL CORPORATION
P.O. BOX 2180
HOUSTON, TX 77252-2180

24 - HOUR HEALTH AND SAFETY EMERGENCY (CALL COLLECT): 609-737-4411

24 - HOUR TRANSPORTATION EMERGENCY:

CHEMTREC:

800-424-9300
202-483-7616

LUBES AND FUELS: 281-834-3296

PRODUCT AND TECHNICAL INFORMATION:

LUBRICANTS AND SPECIALTIES:

800-662-4525
800-443-9966

FUELS PRODUCTS: 800-947-9147

MSDS FAX ON DEMAND: 713-613-3661

MSDS ON INTERNET:

HTTP://WWW.EXXON.COM
HTTP://WWW.MOBIL.COM

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: METHANE

GLOBALLY REPORTABLE MSDS INGREDIENTS:

SUBSTANCE NAME	APPROX. WT%
METHANE (74-82-8)	100

SEE SECTION 8 FOR EXPOSURE LIMITS (IF APPLICABLE).

3. HAZARDS IDENTIFICATION

THIS PRODUCT IS CONSIDERED HAZARDOUS ACCORDING TO REGULATORY GUIDELINES (SEE SECTION 15).

EMERGENCY OVERVIEW:

COLORLESS LIQUIFIED GAS. EXTREMELY FLAMMABLE. VAPOR ACCUMULATION COULD FLASH

AND/OR EXPLODE IF IN CONTACT WITH OPEN FLAME. PRESSURIZED CONTAINERS MAY EXPLODE IF EXPOSED TO OPEN FLAMES OR HIGH TEMPERATURES.

DOT ERG NO.: 115

POTENTIAL HEALTH EFFECTS:

CAN CAUSE IRRITATION OR FREEZE BURNS IF CONTACT WITH COMPRESSED LIQUID OCCURS.

***** THIS PRODUCT IS AN ASPHYXIAN. SYMPTOMS INCLUDE RESPIRATORY IRRITATION, DIZZINESS, NAUSEA AND LOSS OF CONSCIOUSNESS. IN ADDITION, EXPOSURE TO CONCENTRATIONS ABOVE 2% MAY CAUSE A GENERAL CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION TYPICAL OF ANESTHETIC GASES OR INTOXICANTS. CONTINUED EXPOSURE TO ODORIZED GAS MAY REDUCE OR ELIMINATE ABILITY TO SMELL THE ODORANT. PEOPLE WITH IMPAIRED ABILITY TO DETECT ODOR DUE TO COLDS, ALLERGIES, INJURIES, ETC. MUST BE ESPECIALLY CAUTIOUS. ODOR MUST NOT BE USED EXCLUSIVELY AS A SAFETY MEASURE. PROPER RESPIRATORY PROTECTION AND FIRE/EXPLOSION PRECAUTIONS SHOULD BE UTILIZED WHEN ODOR IS FIRST DETECTED.

FOR FURTHER HEALTH EFFECTS/TOXICOLOGICAL DATA, SEE SECTION 11.

4. FIRST AID MEASURES

EYE CONTACT:

FLUSH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, CALL A PHYSICIAN.

SKIN CONTACT:

IF FROSTBITE OCCURS, IMMERSE INVOLVED AREA IN WARM WATER (BETWEEN 100F/38C AND 110F/43C, NOT EXCEEDING 112F/44C). KEEP IMMERSUED FOR 20 TO 40 MINUTES. SEEK MEDICAL ASSISTANCE. (SEE SECTION 16 - INJECTION INJURY)

INHALATION:

IMMEDIATELY REMOVE FROM FURTHER EXPOSURE. GET IMMEDIATE MEDICAL ASSISTANCE. FOR THOSE PROVIDING ASSISTANCE, AVOID EXPOSURE TO YOURSELF OR OTHERS. USE ADEQUATE RESPIRATORY PROTECTION. GIVE SUPPLEMENTAL OXYGEN, IF AVAILABLE. IF BREATHING HAS STOPPED, ASSIST VENTILATION WITH A MECHANICAL DEVICE OR USE MOUTH-TO-MOUTH RESUSCITATION.

INGESTION: NOT EXPECTED TO OCCUR IN NORMAL INDUSTRIAL USE.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

CARBON DIOXIDE, DRY CHEMICAL AND WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES:

LET FIRE BURN; SHUT OFF GAS SUPPLY. WATER SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL. STOP FLOW OF MATERIAL. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL AND TO PROTECT PERSONNEL EFFECTING SHUTOFF. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND TO PROTECT PERSONNEL ATTEMPTING TO STOP LEAK. PREVENT RUNOFF FROM FIRE CONTROL OR DILUTION FROM ENTERING STREAMS, SEWERS, OR DRINKING WATER SUPPLY.

SPECIAL PROTECTIVE EQUIPMENT:

FOR FIRES IN ENCLOSED AREAS, FIRE FIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

EXTREMELY FLAMMABLE. VAPOR ACCUMULATION COULD FLASH AND/OR EXPLODE IF IN CONTACT WITH OPEN FLAME. PRESSURIZED CONTAINERS MAY EXPLODE IF EXPOSED TO OPEN FLAMES OR HIGH TEMPERATURES.

FLASH POINT C(F): -180 (-292) (ASTM D-93).

FLAMMABLE LIMITS (APPROX.% VOL. IN AIR):

LEL: 5.0%

UEL: 15.0%

NFPA HAZARD ID:

HEALTH 1

FLAMMABILITY 4

REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES:

REPORT SPILLS/RELEASES AS REQUIRED TO APPROPRIATE AUTHORITIES. U.S. COAST GUARD AND EPA REGULATIONS REQUIRE IMMEDIATE REPORTING OF SPILLS/RELEASES THAT COULD REACH ANY WATERWAY INCLUDING INTERMITTENT DRY CREEKS. REPORT SPILL/RELEASE TO COAST GUARD NATIONAL RESPONSE CENTER TOLL FREE NUMBER (800)424-8802. IN CASE OF ACCIDENT OR ROAD SPILL NOTIFY CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL:

ELIMINATE SOURCES OF IGNITION. WARN OCCUPANTS IN DOWNWIND AREAS OF FIRE AND EXPLOSION HAZARD. SHUT OFF SOURCE TAKING NORMAL SAFETY PRECAUTIONS.

WATER SPILL:

ELIMINATE SOURCES OF IGNITION. ADVISE OCCUPANTS AND SHIPS IN THE VICINITY IN DOWNWIND AREAS OF FIRE AND EXPLOSION HAZARD AND WARN THEM TO STAY CLEAR. NOTIFY PORT AND OTHER RELEVANT AUTHORITIES. DO NOT CONFINE IN AREA OF LEAKAGE.

ENVIRONMENTAL PRECAUTIONS:

PREVENT MATERIAL FROM ENTERING SEWERS, WATER SOURCES OR LOW LYING AREAS; ADVISE THE RELEVANT AUTHORITIES IF IT HAS, OR IF IT CONTAMINATES SOIL/VEGETATION.

PERSONAL PRECAUTIONS: SEE SECTION 8

7. HANDLING AND STORAGE

HANDLING:

AVOID ALL PERSONAL CONTACT. CAN CAUSE IRRITATION OR FREEZE BURNS IF CONTACT WITH COMPRESSED LIQUID OCCURS. ETHYL MERCAPTAN IS ADDED TO GAS AS AN ODORANT TO AID IN THE DETECTION OF THE GAS IN CASE OF LEAK OR ACCIDENTAL DISCHARGE. SINCE ETHYL MERCAPTAN IS REACTIVE, A REDUCTION IN ITS EFFECTIVENESS MAY OCCUR DURING SHIPPING AND STORAGE OF THE ODORIZED GAS. THEREFORE, ODOR MUST NOT BE USED EXCLUSIVELY AS A SAFETY MEASURE. HANDLE GAS WITH STRICT ADHERENCE TO ESTABLISHED SAFETY PROCEDURES. SEE SECTION 8 FOR ADDITIONAL PERSONAL PROTECTION ADVICE WHEN HANDLING THIS PRODUCT.

STORAGE:

STORE AWAY FROM ALL IGNITION SOURCES IN A COOL AREA EQUIPPED WITH AN AUTOMATIC SPRINKLING SYSTEM. OUTSIDE OR DETACHED STORAGE PREFERRED. STORAGE CONTAINERS SHOULD BE GROUNDED AND BONDED.

SPECIAL PRECAUTIONS:

TO PREVENT AND MINIMIZE FIRE OR EXPLOSION RISK FROM STATIC ACCUMULATION AND DISCHARGE, EFFECTIVELY BOND AND/OR GROUND PRODUCT TRANSFER SYSTEM. ELECTRICAL EQUIPMENT AND FITTINGS MUST COMPLY WITH LOCAL FIRE PREVENTION REGULATIONS FOR THIS CLASS OF PRODUCT. USE THE CORRECT GROUNDING PROCEDURES. REFER TO NATIONAL OR LOCAL REGULATIONS COVERING SAFETY AT PETROLEUM HANDLING AND STORAGE AREAS FOR THIS PRODUCT.

EMPTY CONTAINER WARNING:

EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. DO NOT ATTEMPT TO REFILL OR CLEAN CONTAINER SINCE RESIDUE IS DIFFICULT TO REMOVE. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER. ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SUBSTANCE NAME (CAS-NO.)	TWA		STEL		NOTE
	SOURCE	PPM	PPM	MG/M3	
METHANE (74-82-8) SIMPLE ASPHYXIAN					
		ACGIH			
	XOM	1000	1500		

NOTE: LIMITS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

VENTILATION: VENTILATION EQUIPMENT MUST BE EXPLOSION PROOF.

RESPIRATORY PROTECTION:

USE SUPPLIED AIR BREATHING APPARATUS IN OXYGEN DEFICIENT ATMOSPHERES, OR IF PETROLEUM GAS CONCENTRATION EXCEEDS RATING OR CAPACITY OF AIR PURIFYING RESPIRATOR CARTRIDGE/FILTER.

EYE PROTECTION:

IF EYE CONTACT IS LIKELY, SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL TYPE GOGGLES SHOULD BE WORN.

SKIN PROTECTION:

NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE. THERMALLY PROTECTIVE GLOVES AND LONG SLEEVES MUST BE WORN WHEN HANDLING LIQUID. GOOD PERSONAL HYGIENE PRACTICES SHOULD ALWAYS BE FOLLOWED.

9. PHYSICAL AND CHEMICAL PROPERTIES

TYPICAL PHYSICAL PROPERTIES ARE GIVEN BELOW. CONSULT PRODUCT DATA SHEET FOR SPECIFIC DETAILS.

APPEARANCE: LIQUIFIED GAS

COLOR: COLORLESS

ODOR: NONE OR MERCAPTAN

ODOR THRESHOLD-PPM: NE

pH: NA

BOILING POINT C(F): -16K (-258)

MELTING POINT C(F): >-187 (-305)

FLASH POINT C(F): -180(-292) (ASTM D-93)

FLAMMABILITY (SOLIDS): NE

AUTO FLAMMABILITY C(F): 537(999)

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-MMHg 20 C: >1000.0

VAPOR DENSITY: 0.6

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.555

SOLUBILITY IN WATER: NEGLIGIBLE

PARTITION COEFFICIENT: NE

VISCOSITY AT 40 C, CST: NA

VISCOSITY AT 100 C, CST: NA

POUR POINT C(F): NA

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

NA=NOT APPLICABLE

NE=NOT ESTABLISHED

D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): STABLE.

CONDITIONS TO AVOID: HEAT, SPARKS, FLAME AND BUILD UP OF STATIC ELECTRICITY.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:
PRODUCT DOES NOT DECOMPOSE AT AMBIENT TEMPERATURES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11. TOXICOLOGICAL DATA

ACUTE TOXICOLOGY:

ORAL TOXICITY (RATS): NOT APPLICABLE

DERMAL TOXICITY (RABBITS): NOT APPLICABLE

INHALATION TOXICITY (RATS):
PRACTICALLY NON-TOXIC (LC50: GREATER THAN 5 MG/L).

BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

EYE IRRITATION (RABBITS):

PRACTICALLY NON-IRRITATING. (DRAIZE SCORE: 0 OR GREATER BUT 6 OR LESS).

BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION (RABBITS):

PRACTICALLY NON-IRRITATING. (PRIMARY IRRITATION INDEX: 0.5 OR LESS).

BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

OTHER ACUTE TOXICITY DATA:

THIS PRODUCT IS AN ASPHYXIANT. SIMPLE ASPHYXIANTS ACT BY DISPLACING OXYGEN IN THE LUNGS THEREBY DIMINISHING THE SUPPLY OF OXYGEN AVAILABLE TO THE BLOOD AND TISSUES.

CONTINUED LACK OF OXYGEN MAY RESULT IN CONVULSIONS, LOSS OF CONSCIOUSNESS AND DEATH. SINCE EXERCISE INCREASES THE TISSUE NEED FOR OXYGEN, SYMPTOMS WILL OCCUR MORE QUICKLY DURING EXERTION IN AN OXYGEN-DEFICIENT ENVIRONMENT. OXYGEN IN ENCLOSED SPACES SHOULD BE MAINTAINED AT 21% BY VOLUME. IN ADDITION, EXPOSURE TO THIS PRODUCT MAY CAUSE A GENERAL CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION TYPICAL OF ANESTHETIC GASES OR INTOXICANTS.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

ECOTOXICITY: NOT ESTABLISHED.

MOBILITY: NOT ESTABLISHED.

PERSISTENCE AND DEGRADABILITY: NOT ESTABLISHED.

BIOACCUMULATIVE POTENTIAL: NOT ESTABLISHED.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED, CONTROLLED BURNER FOR FUEL VALUE. SUCH BURNING MAY BE LIMITED PURSUANT TO THE RESOURCE CONSERVATION AND RECOVERY ACT. IN ADDITION, THE PRODUCT IS SUITABLE FOR PROCESSING BY AN APPROVED RECYCLING FACILITY OR CAN BE DISPOSED OF AT AN APPROPRIATE GOVERNMENT WASTE DISPOSAL FACILITY. USE OF THESE METHODS IS SUBJECT TO USER COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS AND CONSIDERATION OF PRODUCT CHARACTERISTICS AT TIME OF DISPOSAL.

RCRA INFORMATION:

DISPOSAL OF UNUSED PRODUCT MAY BE SUBJECT TO RCRA REGULATIONS (40 CFR 261). DISPOSAL OF THE USED PRODUCT MAY ALSO BE REGULATED DUE TO IGNITABILITY, CORROSIVITY, REACTIVITY, OR TOXICITY AS DETERMINED BY THE TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP).

FLASH: -180(-292) C(F)

14. TRANSPORT INFORMATION

USA DOT:

SHIPPING NAME: METHANE, REFRIGERATED LIQUID

HAZARD CLASS & DIV: 2.1

ID NUMBER: UN1972

ERG NUMBER: 115

PACKING GROUP: NA

STCC: NE
DANGEROUS WHEN WET: NO
POISON: NO
LABEL(S): FLAMMABLE GAS
PLACARD(S): FLAMMABLE GAS
PRODUCT RQ: NA
MARPOL III STATUS: NA

RID/ADR:
HAZARD CLASS: 2
PACKING GROUP: NA
LABEL: 2.1
DANGER NUMBER: 223
UN NUMBER: 1972
SHIPPING NAME: METHANE, REFRIGERATED LIQUID
REMARKS: NA

IMO:
HAZARD CLASS & DIV: 2.1
UN NUMBER: 1972
PACKING GROUP: NA
SHIPPING NAME: METHANE, REFRIGERATED LIQUID
LABEL(S): FLAMMABLE GAS
MARPOL III STATUS: NA

IATA: FORBIDDEN

15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD:
PRODUCT ASSESSED IN ACCORDANCE WITH OSHA 29 CFR 1910.1200 AND DETERMINED TO BE HAZARDOUS.

EU LABELING:
PRODUCT IS DANGEROUS AS DEFINED BY THE EUROPEAN UNION DANGEROUS SUBSTANCES/PREPARATIONS DIRECTIVES.

SYMBOL: F+ EXTREMELY FLAMMABLE.

RISK PHRASE(S): R12.

EXTREMELY FLAMMABLE.

SAFETY PHRASE(S): S9-16-33.

KEEP CONTAINER IN A WELL-VENTILATED PLACE. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

CONTAINS: PETROLEUM GAS.

GOVERNMENTAL INVENTORY STATUS:
ALL COMPONENTS COMPLY WITH TSCA, EINECS/ELINCS, AICS, METI, DSL, KOREA, AND PHILIPPINES.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III:
THIS PRODUCT CONTAINS NO "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: PRESSURE FIRE

THIS PRODUCT CONTAINS NO CHEMICALS SUBJECT TO THE SUPPLIER NOTIFICATION REQUIREMENTS OF SARA (313) TOXIC RELEASE PROGRAM.

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
METHANE	74-82-8	1, 19, 20, 21, 23, 24, 25, 26

REGULATORY LISTS SEARCHED:

1=ACGIH ALL
2=ACGIH A1
3=ACGIH A2
4=NTP CARC
5=NTP SUS
6=IARC 1
7=IARC 2A
8=IARC 2B
9=OSHA CARC
10=OSHA Z
11=TSCA 4
12=TSCA 5A2
13=TSCA 5E
14=TSCA 6
15=TSCA 12B
16=CA P65 CARC
17=CA P65 REPRO
18=CA RTK
19=FL RTK
20=IL RTK
21=LA RTK
22=MI 293
23=MN RTK
24=NJ RTK
25=PA RTK
26=RI RTK

CODE KEY:

CARC=CARCINOGEN
SUS=SUSPECTED CARCINOGEN
REPRO=REPRODUCTIVE

16. OTHER INFORMATION

USE: GAS

NOTE:

PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

HEALTH STUDIES HAVE SHOWN THAT MANY HYDROCARBONS POSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. INFORMATION PROVIDED ON THIS MSDS REFLECTS INTENDED USE. THIS PRODUCT SHOULD NOT BE USED FOR OTHER APPLICATIONS.

IN ANY CASE, THE FOLLOWING ADVICE SHOULD BE CONSIDERED:

INJECTION INJURY WARNING:

IF PRODUCT IS INJECTED INTO OR UNDER THE SKIN, OR INTO ANY PART OF THE BODY, REGARDLESS OF THE APPEARANCE OF THE WOUND OR ITS SIZE, THE INDIVIDUAL SHOULD BE EVALUATED IMMEDIATELY BY A PHYSICIAN AS A SURGICAL EMERGENCY. EVEN THOUGH INITIAL SYMPTOMS FROM HIGH PRESSURE INJECTION MAY BE MINIMAL OR ABSENT, EARLY SURGICAL TREATMENT WITHIN THE FIRST FEW HOURS MAY SIGNIFICANTLY REDUCE THE ULTIMATE EXTENT OF INJURY.

PRECAUTIONARY LABEL TEXT:

CONTAINS METHANE

DANGER!

EXTREMELY FLAMMABLE LIQUID AND GAS UNDER PRESSURE. MAY CAUSE FLASH FIRE.

CONTACT WITH LIQUID CAN CAUSE FREEZE BURNS. EXPOSURE TO SUFFICIENTLY HIGH CONCENTRATIONS MAY CAUSE GENERAL CENTRAL NERVOUS SYSTEM DEPRESSION AND SUFFOCATION.

KEEP AWAY FROM HEAT, SPARKS, AND FLAME. AVOID ALL PERSONAL CONTACT.

AVOID BREATHING GAS. KEEP CONTAINER CLOSED. USE ONLY WITH ADEQUATE VENTILATION. DO NOT DEPEND ON ODOR TO DETECT PRESENCE OF GAS.

FIRST AID:

IF INHALED, IMMEDIATELY REMOVE FROM FURTHER EXPOSURE. GET IMMEDIATE MEDICAL ASSISTANCE. GIVE SUPPLEMENTAL OXYGEN, IF AVAILABLE. IF BREATHING HAS STOPPED, ASSIST VENTILATION WITH A MECHANICAL DEVICE OR USE MOUTH-TO-MOUTH RESUSCITATION. IF FROSTBITE OCCURS, IMMERSE INVOLVED AREA IN WARM WATER (BETWEEN 100F/38C AND 110F/43C) FOR 20 TO 40 MINUTES. GET MEDICAL ATTENTION.

CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM ARE CREATED BY THE COMBUSTION OF THIS PRODUCT. REFER TO PRODUCT MATERIAL SAFETY DATA SHEET FOR FURTHER SAFETY AND HEALTH INFORMATION.

FOR INTERNAL USE ONLY:

MHC: NA NA 0* 0* 0*

MPPEC: DF

TRN: 269100-00

REQ: EXXONMOBIL GAS MARKETING COMPANY

SAFE USE: F

EHS APPROVAL DATE: 28 FEB 2003

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS. ALTERATION OF THIS DOCUMENT IS STRICTLY PROHIBITED. EXCEPT TO THE EXTENT REQUIRED BY LAW, REPLICATION OR RETRANSMISSION OF THIS DOCUMENT, IN WHOLE OR IN PART, IS NOT PERMITTED. EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ASSUME NO RESPONSIBILITY FOR ACCURACY OF INFORMATION UNLESS THE DOCUMENT IS THE MOST CURRENT AVAILABLE FROM AN OFFICIAL EXXONMOBIL DISTRIBUTION SYSTEM. EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES NEITHER REPRESENT NOR WARRANT THAT THE FORMAT, CONTENT OR PRODUCT FORMULAS CONTAINED IN THIS DOCUMENT COMPLY WITH THE LAWS OF ANY OTHER COUNTRY EXCEPT THE UNITED STATES OF AMERICA.

PREPARED BY: EXXONMOBIL OIL CORPORATION

ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT, CLINTON, USA