1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SWEET CRUDE OIL
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037
24-Hour Emergency (call collect): 609-737-4411
Product and MSDS Information: 800-662-4525 856-224-4644
CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PETROLEUM CRUDE OIL
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>Wt%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETROLEUM CRUDE OIL (8002-05-9)</td>
<td>100</td>
</tr>
</tbody>
</table>

COMPONENT(S) OF PRODUCT INGREDIENTS INCLUDE:
BENZENE (71-43-2) > 0.1

NOTE: Crude oils may contain varying concentrations of hydrogen sulfide depending on gas stripping operations. Hydrogen sulfide is highly toxic, keep face clear of tank or tank car openings. Do not enter enclosed or confined spaces without proper respiratory protection, particularly holds of ships and pump rooms. See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

EFFECTS OF OVEREXPOSURE: ****Note: This product contains polycyclic aromatic compounds (PACs). Under conditions of poor personal hygiene and prolonged repeated contact, some PACs have been suspected as a cause of skin cancer in humans. Overexposure to benzene can result in blood disorders and damage to the bone marrow. In rare instances leukemia has also been reported. At very high levels of exposure, kidney and liver damage could occur. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Skin irritation. Respiratory irritation, dizziness, nausea, loss of consciousness.

EMERGENCY RESPONSE DATA: Black Liquid. Flammable. Vapor accumulation could flash and/or explode if ignited. Exposure to fire can generate highly toxic fumes. DOT ERG No.: 128

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Remove contaminated clothing. Dry wipe exposed skin and cleanse yourself with waterless hand cleaner and follow by washing thoroughly with soap and water. For those providing assistance, avoid further contact to yourself or others. Wear impervious gloves. Launder contaminated clothing separately before reuse. Discard contaminated articles that cannot be laundered.
INHALATION: Immediately remove from further exposure. Get immediate
medical assistance. For those providing assistance, avoid exposure to yourself and others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a bag-valve-mask device.

INGESTION: Seek immediate medical attention. Do not induce vomiting.

NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. 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: Flammable. Vapor accumulation can cause explosions if ignited. Exposure to fire can generate highly toxic fumes. Flash Point C(F): >-18(0) (ASTM D-56). Flammable limits - LEL: 0.6% UEL: 7.0%.

NFPA HAZARD ID: Health: 1, Flammability: 3, Reactivity: 0

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides, Sulfur oxides and H2S, Metal oxides, Carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard 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: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. For large spills: Contain material and pump back to holding tank for later disposal. Eliminate all ignition sources. Remove leaking containers to detached area.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8.

7. HANDLING AND STORAGE

HANDLING: Trace amounts of H2S may be present. Keep face clear of tank and/or tank car openings. Avoid all personal contact and breathing gas. Use in well ventilated area away from all ignition sources. Avoid sparking conditions. Ground and bond all transfer equipment.

STORAGE: Inhalation hazard: Contains trace amounts of H2S. Environment should be tested for contaminant before entering area. Drums must be grounded and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters. Store containers 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Ventilation required and equipment must be explosion proof. Use away from all heat and ignition sources.

RESPIRATORY PROTECTION: Approved respiratory protective equipment must be used in high vapor or mist concentrations. Use approved respiratory protective equipment in spaces where H2S vapors may
accumulate.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: Impervious gloves should be worn.

OTHER: ***Inhalation hazard: Contains trace amounts of H2S. Environment should be tested for contaminant before entering area.

<table>
<thead>
<tr>
<th>Substance Name (CAS-No.)</th>
<th>Source</th>
<th>TWA ppm mg/m³</th>
<th>STEL ppm mg/m³</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENE (71-43-2)</td>
<td>OSHA</td>
<td>1</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>0.5</td>
<td>1.6</td>
<td>2.5</td>
</tr>
</tbody>
</table>

NOTE: Limits shown for guidance only. Follow applicable regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid
COLOR: Black
ODOR: Hydrocarbon
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): < -18(0)
MELTING POINT C(F): NA
FLASH POINT C(F): > -18(0) (ASTM D-56)
FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: < 300.0
VAPOR DENSITY: NE
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.8-0.9
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: NE
VI SCOSI TY AT 40 C, cSt: < 15.0
VI SCOSI TY AT 100 C, cSt: NE
POUR POINT C(F): NE
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, LI GHT, ETC.): Stable.
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity.
INCOMPATIBLE MATE RiALS TO AVOID: Strong oxidizers.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): LD50: > 5 g/kg 0/10 Fatalities at this dosage level. Practically non-toxic (LD50: greater than 2000 mg/kg).
---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBIT TS): LD50: > 2 g/kg 0/06 Fatalities at this dosage level. Practically non-toxic (LD50: greater than 2000 mg/kg).
---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Harmful (LC50: greater than 2 but 5 mg/l or less). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBIT TS): 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): Irritant. (Primary Irritation Index: 3 or greater but less than 5). ---Based on testing of similar products and/or the components.

---GENETIC TOXICOLOGY (SUMMARY)---

***Positive Ames test. Benzene was not mutagenic in most mutagenicity test systems, but has been reported to induce chromosomal changes in bone marrow and blood cells of some exposed workers.

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

Some animal studies suggest that exposure to high levels of benzene may result in growth retardation to the developing fetus. Some effects on reproductive organs in mice have also been reported. In most inhalation studies with laboratory animals, benzene did not result in any malformations or reproductive effects.

***Skin tumorigenicity: Positive in mice. Animal studies with benzene by inhalation or by oral administration have resulted in evidence of carcinogenic effects in a number of tissues and organs, adverse effects on the immune system, chromosomal changes, anemia and possibly leukemia. Both NTP and IARC list benzene as a human carcinogen. Long-term exposure to benzene at <100 ppm has been reported to result in blood abnormalities in humans, including anemia and, in rare cases, leukemia. These effects may develop over months or years without warning symptoms. Prolonged, repeated skin contact may result in irritation and dermatitis.

---CHRONIC TOXICOLOGY (SUMMARY)---

****Trace amounts of hydrogen sulfide, a toxic gas, may be present when this material is handled in liquid form. Keep face clear of tank and/or tank car openings. H2S may not be detectable by odor. Do not enter confined spaces particularly ship holds and pump rooms without respiratory protection.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. 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).

BENZENE: .1001 PCT (TCLP)
FLASH: > -18(0) C(F)

14. TRANSPORT INFORMATION

USA DOT:
SHIPPING NAME: Petroleum Crude Oil
HAZARD CLASS & DIV: 3
ID NUMBER: UN1267
ERG NUMBER: 128
PACKING GROUP: PG I
STCC: 4910165
DANGEROUS WHEN WET: No
POL: No
LABEL(s): Flammable Liquid
PLACARD(s): Flammable
PRODUCT RQ: NA
MARPOL III STATUS: NA

IMO:
HAZARD CLASS & DIV: 3.2
UN NUMBER: 1267
PACKING GROUP: PG I
SHI PPI NG NAME: Petroleum Crude Oil
LABEL(s): Flammable Liquid
MARPOL III STATUS: NA

ICAO/IATA:
HAZARD CLASS & DIV: 3
ID/UN Number: 1267
PACKING GROUP: PG I
SHI PPI NG NAME: Petroleum Crude Oil
LABEL(s): Flammable Liquid

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL  6=IARC 1     11=TSCA 4    21=LA RTK
2=ACGIH A1   7=IARC 2A    12=TSCA 5a2  22=M RTK
3=ACGIH A2   8=IARC 5e     13=TSCA 5e   23=MN RTK
4=NTP CARC   9=OSHA CARC   14=TSCA 6    24=M RTK
5=NTP SUS    10=OSHA Z     15=TSCA 12b   25=PA RTK
--- REGULATORY LISTS SEARCHED ---

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

Precautionary Label Text:
CONTAINS PETROLEUM CRUDE OIL
DANGER!
FLAMMABLE LIQUID AND VAPOR.
MAY CAUSE SKIN CANCER AND IRRITATION ON PROLONGED, REPEATED CONTACT.
Keep away from heat, sparks, and flame. Avoid breathing mist or vapor.
Avoid contact with skin.
FIRST AID: In case of contact, immediately flush eyes with plenty of water. Call a physician if irritation persists. In case of contact, remove contaminated clothing. Dry wipe the exposed skin and cleanse with waterless hand cleaner and follow by washing thoroughly with soap and water. For those providing assistance, avoid further skin contact to yourself and others. Wear impervious gloves. Wash or dispose of contaminated clothing. If inhaled, immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself and others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a bag-valve-mask device. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.
For industrial use only. Not intended or suitable for use in or around a household or dwelling.

Attention.

Empty container may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.

This warning is given to comply with California Health and Safety Code 25249.6 and does not constitute an admission or a waiver of rights. This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. Refer to product Material Safety Data Bulletin for further safety and health information.

USE: CRUDE OIL
NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

<table>
<thead>
<tr>
<th>INGREDIENT DESCRIPTION</th>
<th>PERCENT</th>
<th>CAS NUMBER</th>
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<td>PETROLEUM CRUDE OIL</td>
<td>100</td>
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EHS Approval Date: 22JUN1999

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