

PHIBRO ENERGY USA, INC. -- DIESEL FUEL -- 9140-00-286-5297  
<pre>===== Product Identification =====

Product ID:DIESEL FUEL  
MSDS Date:01/31/1994  
FSC:9140  
NIIN:00-286-5297  
=== Responsible Party ===  
Company Name:PHIBRO ENERGY USA, INC.  
Address:500 DALLAS AVE, SUITE 3200  
City:HOUSTON  
State:TX  
ZIP:77002  
Country:US  
Info Phone Num:713-646-5135  
Emergency Phone Num:713-923-6641, CHEMTREC 800-424-9300  
Preparer's Name:SUE BOTTOM  
CAGE:0V310  
=== Contractor Identification ===  
Company Name:PHIBRO ENERGY USA INC  
Address:500 DALLAS AVE SUITE 3200  
Box:City:HOUSTON  
State:TX  
ZIP:77002  
Country:US  
Phone:713-923-6641, CHEMTREC800-424-9300  
CAGE:0V310

===== Composition/Information on Ingredients =====

Ingred Name:PETROLEUM DISTILLATE, ALIPHATIC AND AROMATIC HYDROCARBONS  
(VARYING FROM C9 TO C20), CONTAINING ALSO INGREDIENT #2 TO 7.

Fraction by Wt: BALANCE  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:400 PPM NAPHTHA TWA

Ingred Name:N-OCTANE  
CAS:111-65-9  
RTECS #:RG8400000  
Fraction by Wt: <1-2%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:300 PPM TWA 1989  
ACGIH TLV:300 PPM/375STEL;9394

Ingred Name:N-NONANE  
CAS:111-84-2  
RTECS #:RA6115000  
Fraction by Wt: <1-3%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:200 PPM  
ACGIH TLV:200 PPM; 9192

Ingred Name:NAPHTHALENE (SARA III)  
CAS:91-20-3  
RTECS #:QJ0525000  
Fraction by Wt: <1-3%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 PPM  
ACGIH TLV:10 PPM/15 STEL; 9394  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:HEXANE ISOMERS (OTHER THAN N-HEXANE)  
Fraction by Wt: <1-3%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:500 PPM  
ACGIH TLV:500 PPM

Ingred Name:N-HEXANE  
CAS:110-54-3  
RTECS #:MN9275000  
Fraction by Wt: <1-2%

Other REC Limits:NONE RECOMMENDED  
OSHA PEL:50 PPM 1989  
ACGIH TLV:50 PPM; 9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:N-HEPTANE  
CAS:142-82-5  
RTECS #:MI7700000  
Fraction by Wt: <1-2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:400 PPM TWA 1989  
ACGIH TLV:400 PPM/500STEL;9394

Ingred Name:HYDROGEN SULFIDE (SARA III)  
CAS:7783-06-4  
RTECS #:MX1225000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C, 20 PPM  
ACGIH TLV:10 PPM/15 STEL; 9394  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE-INHALATION:CNS EFFECTS,  
RESPIRATORY IRRITATION. EYES:SEVERE IRRITATION. INGESTION:HARMFUL  
OR FATAL, IRRITATION OF GI TRACT. ASPIRATION INTO THE LUNGS CAN  
CAUSE SEVERE CHEMICAL PNEUMONITIS, WHICH CAN BE FATAL.  
SKIN:REPEATED EXPOSURE MAY CAUSE IRRITATION. CHRONIC:DERMATITIS.  
TARGET ORGANS:SKIN, LUNG, CNS.  
Explanation of Carcinogenicity:PER NIOSH BULLETIN 50 A POTENTIAL  
OCCUPATIONAL CARCINOGENIC HAZARD EXISTS DUE TO HUMAN EXPOSURE TO  
DIESEL EXHAUST.  
Effects of Overexposure:EYE:IRRITATION, REDNESS, TEARING, BLURRED  
VISION, CONJUNCTIVITIS. SKIN:IRRITATION, DRYNESS, REDNESS, ITCHING.  
INHAL:HEADACHE, DIZZINESS, DROWZINESS, NAUSEA, VOMITING, TREMORS,  
CONVULSIONS, IRREGULAR HEART BEAT. INGESTION: G/I IRRITATION AND  
SYMPTOMS SIMILAR TO INHALATION.  
Medical Cond Aggravated by Exposure:EYE, SKIN, HEART, CNS, AND  
RESPIRATORY DISORDERS MAY BE AGGRAVATED BY OVEREXPOSURE.

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===== First Aid Measures =====  
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First Aid:SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER.  
GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION:REMOVE TO  
FRESH AIR & RESTORE BREATHING IF NECESSARY. GET MEDICAL ATTENTION.  
EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING  
EYELIDS OPEN. GET MEDICAL ATTENTION. INGESTION:GET IMMEDIATE  
MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NOTHING BY MOUTH IF  
UNCONSCIOUS.

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===== Fire Fighting Measures =====  
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Flash Point:125F,52C  
Lower Limits:0.4%  
Upper Limits:8.0%  
Extinguishing Media:CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.  
Fire Fighting Procedures:EVACUATE AREA. USE NIOSH APPROVED SCBA & FULL  
PROTECTIVE EQUIPMENT TO FIGHT FIRE. USE WATER SPRAY TO COOL EXPOSED  
CONTAINERS. DIRECT WATER SPRAY MAY SPREAD FIRE  
Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY  
TRAVEL ALONG GROUND OR FLOOR, THEN 'FLASH BACK' FROM A DISTANT  
IGNITION SOURCE. TOXIC FUMES & GASES ARE PRODUCED BY FIRE.

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===== Accidental Release Measures =====  
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Spill Release Procedures:EVACUATE AREA. WEAR PROTECTIVE EQUIPMENT. SHUT  
OFF SOURCE IF POSSIBLE & CONTAIN SPILL. REMOVE IGNITION SOURCES.  
KEEP OUT OF WATER RESOURCES AND SEWERS. ABSORB IN INERT MATERIAL OR

RECOVER BY PUMPING. TRANSFER TO DISPOSAL DRUMS.  
Neutralizing Agent:NONE

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Handling and Storage

Handling and Storage Precautions:KEEP AWAY FROM HEAT, SPARKS, FLAME.  
STORE IN WELL VENTILATED AREA. GROUND CONTAINERS DURING TRANSFER.  
STORE IN CLOSED CONTAINER.  
Other Precautions:EMPTY CONTAINERS RETAIN RESIDUE. DO NOT PRESSURIZE,  
CUT, WELD OR EXPOSE TO HEAT, FLAME, STATIC ELECTRICITY, OR OTHER  
SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY.

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Exposure Controls/Personal Protection

Respiratory Protection:FOR CONCENTRATIONS EXCEEDING RECOMMENDED LEVEL,  
USE NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR. FOR SPILL OR IF  
CONCENTRATION IS UNKNOWN, USE NIOSH/MSHA SUPPLIED AIR RESPIRATOR OR  
SCBA.  
Ventilation:GENERAL OR MECHANICAL  
Protective Gloves:NEOPRENE OR NITRILE  
Eye Protection:SAFETY GLASSES OR CHEMICAL SPLASH GOGGLE  
Other Protective Equipment:PROTECTIVE GARMENTS TO PREVENT SKIN CONTACT.  
Work Hygienic Practices:DO NOT EAT, DRINK OR SMOKE WHILE WORKING WITH  
THIS PRODUCT.  
Supplemental Safety and Health  
DANGER! UNTREATED PRODUCT MAY CONTAIN OR RELEASE HYDROGEN SULFIDE. H2S  
IS A HIGHLY TOXIC AND FLAMMABLE GAS WHICH CAN BE FATAL IF INHALED  
AT CERTAIN CONCENTRATION.

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Physical/Chemical Properties

HCC:F4  
NRC/State Lic Num:NONE  
Boiling Pt:B.P. Text:325F,163C  
Vapor Pres:<0.1 PSI  
Vapor Density:3-7  
Spec Gravity:0.84 - 0.93  
Viscosity:8 CST @ -4F  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:CLEAR TO STRAW COLORED LIQUID, KEROSENE ODOR.  
Percent Volatiles by Volume:NEGLIG

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Stability and Reactivity Data

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS, STRONG ACIDS, CAUSTICS AND HALOGENS.  
Stability Condition to Avoid:OPEN FLAMES, SOURCES OF IGNITION, STATIC  
ELECTRICITY.  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND  
REACTIVE HYDROCARBONS (LDEHYDES, AROMATICS, ETC) COMPOUNDS.

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Disposal Considerations

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULATIONS.

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