

FARMLAND INDUSTRIES PETROLEUM DIV -- LOW SULFUR #2 FUEL, #2 DIESEL FUEL, FUEL OIL - DIESEL  
 MATERIAL SAFETY DATA SHEET  
 NSN: 9140000000184  
 Manufacturer's CAGE: 6G072  
 Part No. Indicator: A  
 Part Number/Trade Name: LOW SULFUR #2 FUEL, #2 DIESEL FUEL, FUEL OIL

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 General Information  
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Item Name: DIESEL FUEL  
 Company's Name: FARMLAND INDUSTRIES INC. PETROLEUM DIVISION  
 Company's P. O. Box: 7305  
 Company's City: KANSAS CITY  
 Company's State: MO  
 Company's Country: US  
 Company's Zip Code: 64116-0005  
 Company's Emerg Ph #: 816-251-4000/800-424-9300(CHEMTREC)  
 Company's Info Ph #: 800-523-3774  
 Record No. For Safety Entry: 024  
 Tot Safety Entries This Stk#: 032  
 Status: SE  
 Date MSDS Prepared: 15OCT93  
 Safety Data Review Date: 26JUL94  
 Supply Item Manager: CX  
 MSDS Serial Number: BTSCK  
 Specification Number: VV-F-800  
 Spec Type, Grade, Class: GRADE DF-2 LOW SULFR  
 Hazard Characteristic Code: F4  
 Unit Of Issue: GL

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 Ingredients/Identity Information  
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Proprietary: NO  
 Ingredient: PETROLEUM MID-DISTILLATE  
 Ingredient Sequence Number: 01  
 Percent: 100  
 NIOSH (RTECS) Number: 1004302PE  
 CAS Number: 68476-34-6  
 OSHA PEL: NOT ESTABLISHED  
 ACGIH TLV: NOT ESTABLISHED  
 Other Recommended Limit: NONE RECOMMENDED

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 Physical/Chemical Characteristics  
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Appearance And Odor: CLEAR TO SIGHT GREENISH YELLOW LIQUID, HYDROCARBON  
 ODOR  
 Boiling Point: 340F,171C  
 Melting Point: N/A  
 Vapor Pressure (MM Hg/70 F): <50 MMHG  
 Vapor Density (Air=1): >1  
 Decomposition Temperature: UNKNOWN  
 Evaporation Rate And Ref: <1 (ETHER=1)  
 Solubility In Water: NEGLIGIBLE  
 Percent Volatiles By Volume: NIL  
 pH: N/A  
 Corrosion Rate (IPY): UNKNOWN

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 Fire and Explosion Hazard Data  
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Flash Point: 140F,60C  
 Flash Point Method: TCC  
 Lower Explosive Limit: 0.6  
 Upper Explosive Limit: 7.5

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.  
 Special Fire Fighting Proc: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire And Expl Hazrds: VAPORS ARE HEAVIER THAN AIR, MAY SETTLE AT LOW AREAS OR TRAVEL SOME DISTANCE ALONG THE GROUND TO IGNITION SOURCES WHERE THEY MAY IGNITE & FLASH BACK.

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 Reactivity Data  
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Stability: YES  
 Cond To Avoid (Stability): HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION  
 Materials To Avoid: STRONG OXIDIZING AGENTS  
 Hazardous Decomp Products: TOXIC CARBON MONOXIDE AND CARBON DIOXIDE, SULFUR DIOXIDE AND OTHER HYDROCARBONS.  
 Hazardous Poly Occur: NO  
 Conditions To Avoid (Poly): NOT APPLICABLE  
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 Health Hazard Data  
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LD50-LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN  
 Route Of Entry - Inhalation: YES  
 Route Of Entry - Skin: YES  
 Route Of Entry - Ingestion: YES  
 Health Haz Acute And Chronic: EYES:IRRITATION. SKIN:IRRITATION.  
 INHALATION:LUNG IRRITATION, CNS EFFECTS. INGESTION: MODERATELY TOXIC; HOWEVER, IF ASPIRATED INTO LUNGS IT MAY CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. CHRONIC:DERMATITIS. TARGET ORGANS: SKIN, CNS.  
 Carcinogenicity - NTP: NO  
 Carcinogenicity - IARC: NO  
 Carcinogenicity - OSHA: NO  
 Explanation Carcinogenicity: WHOLE DIESEL ENGINE EXHAUST IS LISTED AS A PROBABLE CARCINOGEN BY IARC AND NIOSH.  
 Signs/Symptoms Of Overexp: EYES:IRRITATION. SKIN:IRRITATION, DRYING EFFECT.  
 INHALATION: HEADACHE, DIZZINESS, NAUSEA, VOMITING, LOSS OF COORDINATION.  
 Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.  
 Emergency/First Aid Proc: EYES:FLUSH WITH FRESH WATER FOR 15 MINUTES.  
 SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH SOAP AND WATER. SEE A DOCTOR IF SYMPTOMS DEVELOP. INHALATION: REMOVE TO FRESH AIR.  
 INGESTION: GIVE WATER OR MILK TO DRINK AND GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY.  
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 Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: THIS MATERIAL IS CONSIDERED TO BE A WATER POLLUTANT AND RELEASES OF THIS PRODUCT SHOULD BE PREVENTED. ELIMINATE ALL OPEN FLAMES. STOP SOURCE OF THE LEAK. DIKE TO CONTAIN LIQUID. RECOVER BY PUMPING OR ABSORB WITH INERT ABSORBENT MATERIALS.  
 Neutralizing Agent: NONE  
 Waste Disposal Method: SEND FOR RECYCLING OR DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.  
 Precautions-Handling/Storing: STORE IN A COOL AREA. KEEP CONTAINERS TIGHTLY CLOSED.  
 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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 Control Measures  
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Respiratory Protection: NONE NORMALLY REQUIRED. USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF TLV IS EXCEEDED OR WHEN SPRAYING OR USING IN CONFINED SPACES.

Ventilation: USE THIS MATERIAL ONLY IN WELL VENTILATED AREAS.

Protective Gloves: PVC

Eye Protection: GOGGLES

Other Protective Equipment: WEAR PROTECTIVE CLOTHINGS.

Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER HANDLING THIS PRODUCT.

Suppl. Safety & Health Data: NONE

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 Transportation Data  
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Trans Data Review Date: 94207

DOT PSN Code: GTF

DOT Proper Shipping Name: GAS OIL OR DIESEL FUEL OR HEATING OIL, LIGHT

DOT Class: 3

DOT ID Number: UN1202

DOT Pack Group: III

DOT Label: FLAMMABLE LIQUID

IMO PSN Code: HRR

IMO Proper Shipping Name: GAS OIL

IMO Regulations Page Number: 3375

IMO UN Number: 1202

IMO UN Class: 3.3

IMO Subsidiary Risk Label: -

IATA PSN Code: MTX

IATA UN ID Number: 1202

IATA Proper Shipping Name: GAS OIL

IATA UN Class: 3

IATA Label: FLAMMABLE LIQUID

AFI PSN Code: MTX

AFI Prop. Shipping Name: GAS OIL OR DIESEL FUEL OR HEATING OIL, LIGHT

AFI Class: 3

AFI ID Number: UN1202

AFI Pack Group: III

AFI Basic Pac Ref: 7-7

N.O.S. Shipping Name: ALIPHATIC PETROLEUM DISTILLATE

Additional Trans Data: NOT REGULATED IF CONTAINER IS LESS THAN 110 GALLONS.

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 Disposal Data  
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 Label Data  
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Label Required: YES

Technical Review Date: 26JUL94

Label Status: F

Common Name: LOW SULFUR #2 FUEL, #2 DIESEL FUEL, FUEL OIL

Signal Word: WARNING!

Acute Health Hazard-Slight: X

Contact Hazard-Slight: X

Fire Hazard-Moderate: X

Reactivity Hazard-None: X

Special Hazard Precautions: FLAMMABLE LIQUID! DIESEL FUEL#2(PETROLEUM DISTILLATE). ACUTE-EYES:IRRITATION. SKIN:IRRITATION. INHALATION:LUNG IRRITATION, CNS EFFECTS. INGESTION:PRACTICALLY NON-TOXIC; HOWEVER, IF ASPIRATED INTO LUNGS IT MAY CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. CHRONIC:DERMATITIS. STORE IN A COOL AREA. KEEP CONTAINERS TIGHTLY CLOSED.

FIRST AID: EYES:FLUSH WITH FRESH WATER FOR 15 MINUTES. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH SOAP AND WATER. SEE A GIVE WATER OR MILK TO DRINK AND GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMINTING. CALL PHYSICIAN IMM

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

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Label State: MO

Label Zip Code: 64116-0005

Label Country: US

Label Emergency Number: 816-251-4000/800-424-9300(CHEMTREC)

Year Procured: 1993