



Where the customer is the company

Box 64089, St. Paul, MN 55164-0089  
Telephone (612) 451-5151

PLATING PLANT  
JAN 18 1991

DATE FEB 1990

MATERIAL SAFETY DATA SHEET

**SECTION I**

**MANUFACTURERS NAME:** FARMERS UNION CENTRAL EXCHANGE INC (CENEX)  
**ADDRESS:** PO BOX 64089, ST PAUL MN 55164-0089  
**TELEPHONE NO:** (612) 451-5151  
**EMERGENCY TELEPHONE:** (800) 424-9300 (CHEMTREC)  
**CHEMICAL NAME & SYNONYMS:** PETROLEUM DISTILLATE  
**TRADE NAME & SYNONYMS:** FUEL OIL #2, DIESEL FUEL #2D, FIELDMASTER XL

**SECTION II INGREDIENTS & HAZARDS**

This product is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200

	<u>CONCENTRATION %</u>	<u>C.A.S. NUMBER</u>
Complex Mixture of Paraffinic, Olefinic, Naphthenic, and Aromatic Hydrocarbons	>95	Mixture
Naphthalene	<5	91-20-3
*Benzene	<0.01	71-43-2
Total Sulfur Content, Max. Fuel Oil, Diesel Fuel #2D, Fieldmaster XL	<0.5	N/A
Diesel Fuel Additive (Fieldmaster XL)	<0.01	Mixture

\*A low benzene level reduces carcinogenic risk. Fuel oils are exempted under the Benzene Standard 29 CFR.

Hazardous Physical Properties  
Class II Combustible Liquid-NFPA

**SECTION III PHYSICAL DATA**

Boiling Point (F.): Range 330-700

Vapor Pressure (mmHg) @ 68 F.: 1

Solubility In Water: Negligible

Specific Gravity: 0.82-0.88

Percent Volatile: Nil  
(By Volume %)

Appearance & Odor: Light yellow color liquid with mild petroleum odor. (Fieldmaster XL fuel is dyed red).

#### SECTION IV FIRE & EXPLOSION DATA

Flash Point PM (F.): 100 min

Flammability Limits: 0.4 LFL  
8.0 UFL

Auto Ignition Temp: 490 F.

Extinguishing Media: Dry chemical, carbon dioxide, foam, water spray or fog. Use a smothering technique for extinguishing fire. A forced stream of water could scatter flames of burning fuels. Flammable vapors will be emitted from heated liquid.

Special Fire Fighting Procedures: Use a water spray to cool fire-exposed containers to prevent violent ruptures. Water runoff to sewer may carry combustible fuels and create a fire or explosion hazard. Firefighters should use self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: Combustion by-products may contain carbon monoxide and other toxic materials.

#### SECTION V HEALTH HAZARD DATA

Primary Route of Exposure/Entry: Skin, Inhalation

TLV-TWA: Not Established

TLV-TWA (Naphthalene): 10 ppm; STEL 15 ppm

Inhalation of excessive vapor or mist is irritating to respiratory passages and can lead to headache, dizziness, nausea, stupor, convulsions or loss of consciousness, depending on concentration and time of exposure. High vapor concentration or liquid contact can irritate eyes. Prolonged or repeated contact with skin can cause defatting, irritation, and dermatitis. Petroleum middle distillates have been shown to produce skin cancer in mice following repeated skin exposure without washing or removal.

Aspiration into the lungs may cause hemorrhaging, pulmonary edema, and chemical pneumonitis.

This material is not listed as a carcinogen by the NTP, IARC or OSHA.

#### SECTION VI EMERGENCY & FIRST AID INFORMATION

EYE CONTACT: Flush thoroughly with running water for 15 minutes including under eyelids. Call a physician.

SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water. If irritation develops, consult a physician.

INHALATION: Remove to fresh air. Restore and/or support breathing as required. Call a physician.

INGESTION: Contact physician! Aspiration hazard! Do not induce vomiting. If spontaneous vomiting occurs, hold the victim's head lower than hips to help prevent pulmonary aspiration. Seek medical assistance for further treatment. Give large quantities of water. Never give anything by mouth to an unconscious person.

#### SECTION VII REACTIVITY DATA

This material is stable in closed containers at room temperature under normal storage and handling conditions. It does not polymerize. Heating greatly increases the flammability hazard of this OSHA Class II combustible liquid.

Stability: Stable X Unstable \_\_\_\_\_  
Conditions To Avoid: Oxidizing materials, heat, flame, sparks.  
Materials To Avoid: Oxidizing materials  
Hazardous Decomposition: Carbon monoxide and other toxic chemicals.  
Hazardous Polymerization: May Occur \_\_\_\_\_ Will Not Occur X  
Conditions To Avoid: N/A

Thermal-oxidative degradation can yield partial oxidation products, hydrocarbons, carbon monoxide and dioxide, and small amounts of sulfur dioxide (depending on sulfur content).

#### SECTION VIII SPILL OR LEAK PROCEDURES

Report spills as required to authorities. Report spills that could reach any waterway to U.S. Coast Guard (800-424-8802). In case of accident or road spill, notify Chemtrec (800-424-9300).

Notify safety personnel of leaks or spills. Remove sources of heat or ignition. Provide optimum explosion-proof ventilation. Clean up personnel need protection against liquid contact and vapor or mist inhalation. Contain spill and collect liquid. Do not flush to sewer or surface water. Use absorbent material (sand, vermiculite) to pick up small spills and residues promptly to reduce fire or vapor hazard. Use non-sparking tools. Recover as much product as possible.

Waste Disposal Method: May be disposed of through a licensed waste disposal company, or by controlled incineration or absorbed material can be buried in an approved landfill. Follow local, state and federal regulations.

NOTE: Review fire and explosion hazards. Use appropriate personal protective equipment.

**SECTION IX SPECIAL PROTECTION INFORMATION**

Provide general and local exhaust ventilation especially if heated or misted as needed to keep mist and vapors at a low level. Provide approved organic mist and vapor respiratory apparatus for non-routine or emergency use. Wear protective rubber gloves or prevent repeated or prolonged contact & safety glasses if splashing of liquid may occur. Additional protective clothing may be required depending on working conditions. Launder work clothes at least weekly and when contaminated before reuse. Eyewash stations and washing facilities should be available to areas of use and handling.

**SECTION X TRANSPORTATION, STORAGE, SPECIAL PRECAUTIONS & COMMENTS**

Storage Information: Store in closed containers in a well-ventilated area away from sources of heat, ignition, and strong oxidizing agents. Protect containers from physical damage. Outdoor or detached storage preferred for large amounts. Use of non-sparking tools and explosion-proof electrical services may be desirable. Ground and bond containers to prevent static sparks. No smoking in areas of use. Storage conditions must meet requirements for an OSHA Class II Combustible Liquid. Avoid prolonged or repeated skin contact and breathing of vapors or mists. Follow good hygienic practice in the use of this material. Launder oily rags before reuse. Wash hands and exposed skin frequently during work day.

Shipping Information:

DOT:

Proper Shipping Name: Diesel Fuel or Fuel Oil

Hazard Class: Combustible Liquid

UN/NA No: NA 1993

DOT Label: None

DOT Placard: Combustible

**SECTION XI REGULATORY INFORMATION**

SARA Title III Sections 302,304,311,312,313. Section 302/304 - Extremely Hazardous Substance (40 CFR 355). This material is not known to contain any extremely hazardous substances at or greater than 1% concentration.

Section 311/312 MSDS and OSHA's (40 CFR 370).

This product is covered under OSHA's Hazard Communication Standard (29 CFR 1910.1200) and should be reported under the following EPA hazard categories:

X  Acute (immediate) Health Hazard

X  Chronic (delayed) Health Hazard

X  Fire

Sudden Release of Pressure

Reactive

Not Applicable

Section 313 Toxic Chemical Components (40 CFR 372). This product contains the following chemicals at a concentration of 1.0% or greater if hazardous (0.1% or greater for carcinogens) identified as toxic and is subject to toxic chemical release reporting requirements.

<u>Component</u>	<u>C.A.S. No.</u>	<u>Approx. Percent</u>
Naphthalene	91-20-3	4

Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15, 40 CFR 116.

This product contains the following component(s) considered hazardous if spilled in navigable waters.

<u>Component</u>	<u>Reportable Quantity</u>
Petroleum Hydrocarbon	Film or sheen upon the water surface or discoloration of the water or adjoining shoreline

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.