



DATE July 1987

MATERIAL SAFETY DATA SHEET

SECTION I

Diesel Fuel HEALTH: 2
FIRE: 2



MANUFACTURERS NAME: CENEX/Land O'Lakes Ag Services
 ADDRESS: PO Box 64089, St. Paul MN 55164-0089
 TELEPHONE NO: (612) 451-5151
 CHEMICAL NAME & SYNONYMS: Petroleum Distillate
 TRADE NAME & SYNONYMS: Kerosene, Fuel Oil #1 & #2, Diesel Fuel #1D, #2D, Fieldmaster/TQ4

SECTION II INGREDIENTS & HAZARDS

	<u>%V</u>	<u>HAZARD DATA</u>
Complex Mixture Of Paraffinic, Olefinic, Naphthenic, And Aromatic Hydrocarbons	>95	*8 hrs TWA 5mg/m3 (mineral oil mist)
*Benzene	< 100 ppm	
Total Sulfur Content, Max.		
Kerosene No. 1-K	0.04 max	NA
Fuel Oil #1 & #2, Diesel Fuel #1D, #2D & Fieldmaster/TQ4	< 0.5	NA
Diesel Fuel Additive	0.2	NA

*A Low Benzene Level Reduces Carcinogenic Risk. Fuel Oils Are Exempted Under The Benzene Standard 29 CFR

SECTION III PHYSICAL DATA

Boiling Point (°F): Range 330-700
 Vapor Pressure (mmHg): NA
 Solubility In Water: Insoluble
 Specific Gravity: 0.80-0.87
 Percent Volatile: NA
 (By Volume %)
 Appearance & Odor: Water White To Yellow Color Liquid With Mild Petroleum Odor. (Fieldmaster/TQ4 Fuel Is Dyed Red).

SECTION IV FIRE & EXPLOSION DATA

Flash Point (°F): 100 min

Flammability Limits: 0.6%V Lower
8.0%V Upper

Auto Ignition Temp: >410°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 (Caution!) 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.

SECTION V HEALTH HAZARD DATA

Threshold Limit Value: 5mg/m3 (mist)

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. Ingestion of kerosene can be irritating to the mouth, throat, and digestive tract. Aspiration into the lungs may cause hemorrhaging, pulmonary edema, and chemical pneumonitis.

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

SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water.

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

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, observation & support after first aid.

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

SECTION VI 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.

Kerosene is incompatible with strong oxidizing agents. Thermal-oxidative degradation can yield partial oxidation products, hydrocarbons, carbon monoxide and dioxide, and small amounts of sulfur dioxide (depending on sulfur content).

SECTION VII SPILL OR LEAK PROCEDURES

Notify safety personnel of large 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.

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.

SECTION VIII 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 IX SPECIAL PRECAUTIONS & COMMENTS

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. Do not put oily rags into pockets. Wash hands and exposed skin frequently during work day.

DOT Classification: COMBUSTIBLE LIQUID.

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.