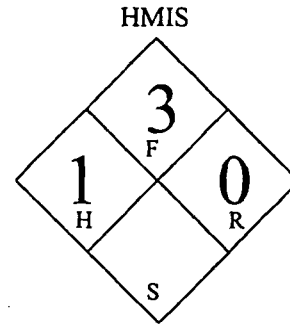


MATERIAL SAFETY DATA SHEET

Manufacturer's Name and Address:
 HOME OIL COMPANY, INC.
 3511 N. Ohio
 P.O. Box 2609
 Wichita, KS 67201-2609
 Phone: 316-838-4664



Emergency Telephone Number
For Accidents or Spills:
 1-800-633-8253 (PERS)

I PRODUCT IDENTIFICATION

Trade Name and Synonyms: Duplicating Fluid Type III
 Chemical Name and/or Family: **Methyl alcohol**
 Chemical Formula: See Section II
 CAS Reg. No.: 67-56-1

II COMPONENTS

Hazardous Ingredients	CAS No.	Wt. %	OSHA		ACGIH	
			PEL (ppm)	TLV (ppm)	STEL (ppm)	
Methyl alcohol (Methanol)	67-56-1	99.9	200	200	250	(Skin)

III OCCUPATIONAL CONTROL PROCEDURES

Protective Equipment (Type)
 Eyes: Chemical type goggles and face shield must be worn. Do not wear contact lenses.
 Skin: Protective clothing such as uniforms, coveralls or lab coats should be worn.
 Launder or dry clean when soiled. Gloves resistant to chemicals and petroleum distillates required.
 Inhalation: If vapor or mist is generated in excess of permissible concentrations, use respirator approved by MSHA or NIOSH.
 Ventilation: Local exhaust ventilation recommended.

WARNING STATEMENT: DANGER! FLAMMABLE! CAUSES IRRITATION TO EYES AND SKIN. MAY CAUSE HEADACHES, DIZZINESS, NAUSEA, AND/OR UNCONSCIOUSNESS.

IV EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush thoroughly with water for at least 15 minutes. Get medical attention.
 Skin: Wash exposed area with soap and water. If irritation develops, seek medical attention.
 Ingestion: Swallowing methanol is life threatening. **CALL A DOCTOR IMMEDIATELY.** If conscious and medical aid is not immediately available, dilute stomach contents by giving large amounts of water or milk and induce vomiting.
 Inhalation: Remove patient to fresh air. If not breathing, give mouth-to-mouth artificial respiration.
 Other Instructions: If illness or adverse symptoms develop, seek medical attention.

22800

V PHYSIOLOGICAL EFFECTS**Acute:**

Eyes: Eye irritation may occur upon short term exposure, including a burning sensation, tearing, redness, or swelling. Upon direct contact with liquid, conjunctivitis and corneal burns may occur.

Skin: Believed to be slightly irritating. Prolonged use may cause dermatitis. Slightly toxic to animals by absorption.

Respiratory System: Overexposure to mist or vapors may cause dizziness, drowsiness, headache, nausea, confusion, digestive and visual disturbances. Massive overexposure may cause unconsciousness and death.

Ingestion: Swallowing only 1 to 4 ounces has been reported to cause death. Methanol can affect the optic nerve resulting in blindness.

Chronic:

Repeated exposure by inhalation or absorption may cause systemic poisoning, brain disorders, impaired vision and blindness. Personnel with pre-existing CNS disease, skin disorders, impaired liver or kidney function, or chronic respiratory diseases should avoid exposure.

Symptoms of Exposure: Headache, Dizziness, Drowsiness, Nausea, Unconsciousness, Blurred Vision, Light Sensitivity, Abdominal Pain, Confusion, Coma.

Primary route(s) of exposure: Eyes, skin, inhalation, ingestion

Carcinogenic Data: This product is not currently listed as a carcinogen by NTP, OSHA, or IARC.

VI FIRE PROTECTION INFORMATION

Autoignition Temperature (°F): 725

Flash Point (method): 52°F / 11°C (TCC)

Flammable Limits (%):

LEL: 6.0 **UEL:** 36.0

Products Evolved When Subject to Heat or Combustion: Toxic gases and vapors; oxides of carbon and formaldehyde.

Recommended Fire Extinguishing Agents And Special Procedures: Use dry chemical, "alcohol" foam or carbon dioxide. Water may be ineffective on the flames, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for the persons attempting to stop the leak. Fire fighters should use self-contained breathing equipment and bunker gear.

Unusual or Explosive Hazards: **Flammable!** Keep containers tightly closed. Explosive air-vapor mixtures may occur. Vapors are heavier than air and may travel considerable distances to sources of ignition and then flash back.

VII ENVIRONMENTAL PROTECTION and TRANSPORTATION

Waste Disposal Method: Incineration is the recommended disposal method. Biodegradation may be used on dilute aqueous waste methanol. Methanol wastes are not suitable for underground injection. Waste material must be disposed of in accordance with municipal, state, provincial and federal regulations.

Procedures in Case of Breakage or Leakage:

(Transportation Spills Call PERS at 1-800-633-8253)

Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Avoid breathing vapor. Use supplied-air mask for large spills or in confined areas. Contain spill. Remove with inert absorbent. Avoid contact with eyes. Avoid allowing product from entering streams or sewers. Restrict access to unprotected personnel. Full face, positive pressure self-contained breathing apparatus and protective clothing must be worn.

SARA Title III Notifications and Information

SARA Title III - Hazard Classes: Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA Title III - Section 313 Supplier Notification:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and of 40 CFR 372:

<u>CAS #</u>	<u>Chemical Name</u>	<u>Percent of Mixture</u>
67-56-1	Methanol	99.9
67-56-1	Methyl Alcohol	99.9

This information must be included on all MSDS's that are copied and distributed for this material.

Other Environmental Information

Aquatic Toxicity Rating - TLM 96: Over 1000 ppm

Reportable Quantity (RQ): 5000 pounds

TRANSPORTATION: Transport, handle, and store in accordance with 29 CFR (1910.106) and applicable DOT Regulations. Ground and electrically interconnect containers for transfer. Use spark proof tools and equipment. Tanks must be grounded and vented and should be nitrogen blanketed. Tanks must be diked. Avoid storage with incompatible materials.

DOT Proper Shipping Name: Methanol or Methyl Alcohol

DOT Hazard Class: 3 (Flammable liquid, Poison)

DOT Identification Number: UN1230

VIII CHEMICAL AND PHYSICAL PROPERTIES

Boiling Point (°F): 148	Vapor Pressure (mm Hg): 96 @ 20°C
Specific Gravity: 0.79 @ 60° F	Vapor Density (air = 1): 1.1
Solubility (water): 100%	pH of Undiluted Product: N.A.
Evaporation Rate (Bu-Acetate = 1): >1	Percent Volatile by Volume: 100
Appearance and Odor: Clear, Colorless; Characteristic Alcohol Odor	Viscosity: ~.1 cps @ 30°C
Hazardous polymerization: Does not occur	

IX SPECIAL PRECAUTIONS

Danger! Flammable! Swallowing even small amounts can cause blindness and death. Causes irritation to the eyes. May cause irritation to skin. Keep away from heat, sparks and flame. Keep container closed. Avoid contact with eyes and prolonged contact with skin. Use only in well ventilated areas. Avoid prolonged breathing of vapor or mist. Keep head away from container when opening or dispensing. Wash thoroughly after handling. Do not mix with strong oxidizers, strong acids, or strong bases.

Date: 7/93

Revised: 2/29/96