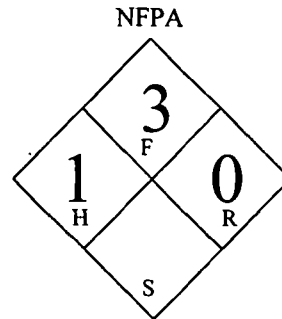


MATERIAL SAFETY DATA SHEET

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 II**
 Chemical Name and/or Family: **Alcohol**
 Chemical Formula: See Section II
 CAS Reg. No.: See Section II

II COMPONENTS

Hazardous Ingredients	CAS No.	OSHA/ACGIH PEL / TLV
Ethanol (190 Proof)	64-17-5	1000 / 1000
Methanol	67-56-1	200 / 200
Propylene glycol monoethyl ether	107-98-2	- / 100

22805

III OCCUPATIONAL CONTROL PROCEDURES

Protective Equipment (Type)
 Eyes: Chemical type goggles 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. A safety shower, eye bath and washing facilities should be available. Wash thoroughly after handling.
 Inhalation: If vapor, mist or dust is generated in excess of permissible concentrations, use respirator approved by MSHA or NIOSH. If respirators are used, a program should be established to assure compliance with OSHA standard 29 CFR 1910.134.
 Ventilation: Local exhaust ventilation recommended.
 Recommended exposure limit: see section II.

WARNING STATEMENT: POISON !!! DANGER! FLAMMABLE! CAUSES IRRITATION TO EYES AND SKIN. USE ADEQUATE VENTILATION. MAY BE FATAL OR CAUSE BLINDNESS IF TAKEN INTERNALLY - CANNOT BE MADE NONPOISONOUS.

IV EMERGENCY AND FIRST AID PROCEDURES**First Aid**

Eyes: Flush thoroughly with water for at least 15 minutes. **CALL A DOCTOR IMMEDIATELY.**

Skin: Wash exposed area with soap and water for at least 15 minutes while removing contaminated clothing and shoes. **CALL A DOCTOR IMMEDIATELY.** Wash clothing before reuse. Destroy contaminated shoes.

Ingestion: If conscious, induce vomiting immediately by giving 1 or 2 glasses of water and touching the back of the throat with a finger or blunt object or by giving syrup of ipecac. Never give anything by mouth to an unconscious person. **CALL A DOCTOR IMMEDIATELY.**

Inhalation: Remove patient to fresh air. If not breathing, give mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen. **CALL A DOCTOR IMMEDIATELY.** Seek medical attention immediately.

Other Instructions: If illness or adverse symptoms develop, seek medical attention.

V PHYSIOLOGICAL EFFECTS**Effects of Overexposure:****Acute:**

Eyes: Believed to cause eye irritation.

Skin: Harmful if absorbed through skin. Believed to be slightly irritating. Prolonged use may cause dermatitis.

Respiratory System: Overexposure to mist, vapors may cause dizziness, drowsiness, headache, nausea. Massive overexposure may cause unconsciousness.

Chronic: headache, dizziness, drowsiness, nausea, weakness, skin irritation, drunkenness, vomiting, unconsciousness, coma, death.

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

Primary routes of entry: Inhalation and skin

VI FIRE PROTECTION INFORMATION

Autoignition Temperature: >760°F

Flash Point (method): 61°F (TCC)

Flammable Limits (%)

Lower 3.5 Upper 21

Products Evolved When Subject to Heat or Combustion: Carbon monoxide and carbon dioxide may be formed on burning.

Recommended Fire Extinguishing Agents And Special Procedures: Use dry chemical, foam or carbon dioxide. Water may be ineffective on the flames, but water should be used to keep fire-exposed containers cool. **Unusual or Explosive Hazards: Flammable!**

Keep containers tightly closed. Explosive air-vapors 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: Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures and processes may change the classification to non-hazardous or hazardous for reasons other than, or in addition to ignitability (See Waste Classification).

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.

Remarks: No Waste Classification of Product has been established (as presently constituted). Recycle or incinerate according to local, state, and federal regulations.

TRANSPORTATION : Transport, handle, and store in accordance with OSHA Regulation 1910.106 and applicable DOT Regulations. Ground and electrically interconnect containers for transfer. Use spark proof tools.

DOT Proper Shipping Name: Alcohol, Toxic, N.O.S. UN 1986 PGII

DOT Hazard Class (if applicable): Flammable.

VIII CHEMICAL AND PHYSICAL PROPERTIES

Boiling Points: 172°F

Vapor Pressure (mm Hg): 40 @ 19°C

Specific Gravity: Approx. 0.79 @ 72°F/60°F

Vapor Density (air=1): 1.59

Appearance and Odor: Clear; Colorless,

Alcohol odor

pH of undiluted Product: N.A.

Solubility (water): Appreciable

Percent Volatile by Volume: 100

Evaporation rate (Bu-Acetate =1): N.D.

Viscosity: N.D.

Hazardous polymerization: Does not occur.

The material reacts violently with:

Air	Water	Heat	Strong Oxidizers	Others	None of these
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X

IX SPECIAL PRECAUTIONS

Danger! Flammable! Poison. Causes mild 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 oxidizers.

Date prepared: 1/25/94

Date revised: 2/21/96