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MATERIAL SAFETY DATA SHEET SC 0006

0	HILLSBORO ELEMENTARY	SCHOOLS MATERIAL SAFETY DATA SHEET SC 00
-	56/20672 <u>1 D E N T I</u>	FICATION Issued: September 19, 1990
	PRODUCT NAME: Spreme Products/ Diplicating Fluid CHEMICAL NAME: Methanol Type III CHEMICAL FAMILY: Alcohol SYNONYMS: Methyl alcohol; carbinol; monohydroxy- methane; methyl hydroxide.	FORHULA: CH <sub>3</sub> OH HOLECULAR WEIGHT: 32 CAS NUMBER: 67-56-1 CAS NAME: Nethanol
	DEPARTMENT OF TRANSPORTATION INFORMATION HAZARD CLASSIFICATION: Flammable Liquid SHIPPING NAME: Methanol	Emergency Telephone No. 1-800-424-9300 UNITED NATIONS NUMBER: UN 1230 DOT EMERGENCY RESPONSE GUIDE NUMBER: 28
PHYSICAL DATA		
	BOILING POINT (760 mm Hg): $64.6^{\circ}C$ (148°F) SPECIFIC GRAVITY (H 0 = 1 a 20/20°C): 0.7925 VAPOR DENSITY (AIR = 1 a 20°C): 1.11 PERCENT VOLATILES BY VOLUME: 100 APPEARANCE AND ODOR: Clear, colorless, mobile lic with mild alcohol odor.	FREEZING POINT: -97.8°C (-144°F) VAPOR PRESSURE (20°C): 96.0 mm Hg SOLUBILITY IN WATER (% by WT @ 20°C): Complete EVAPORATION RATE (BUAC = 1): 2.0 quid
	HAZARDOUS INGREDIENTS: Methanol, 99.85%	
	FIRE AND EXPLOSION HAZARD DATA FLAMMABLE LIMITS IN Upper: 36.5	SPECIAL HAZARD DESIGNATIONS HAIS NEPA KEY
Q	AIR, X BY VOLUME Lower: 5.5	HEALTH: 3 1 0 - Hinimal FLAMMABILITY: 3 3 1 - Slight
	FLASH POINT (TEST METHOD): TAG OPEN CUP (ASTH D1310): 60°F (15°C) TAG CLOSED CUP (ASTH 056): 54°F (12°C)	REACTIVITY: D 0 2 - Hoderate   PROTECTIVE 3 - Serious   EQUIPMENT: SC - Severe
		OSHA 29CFR1910.12D0 EVALUATION: Hazardous
	EXTINGUISHING MEDIA: Use CO or dry chemical for small fires, alcohol-type aqueous film-forming foam or water spray for large fires. Water may be ineffective but should be used to cool fire-exposed structures and vessels. SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (SCBA) and complete personal protective equipment when potential for exposure to vapors or products of combustion exists. Water spray can be used to reduce intensity of flames and to dilute spills to nonflammable mixture.	
	UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback. Haterial can burn with little or no visible flame.	
	<u>REACTIVITY DATA</u>	
	STABILITY: Stable	HAZARDOUS POLYHERIZATION: Will not occur.
	CONDITIONS TO AVOID: Heat, sparks, flame.	
	MATERIALS TO AVOID: Sulfuric acid; oxidizing agents such as hydrogen peroxide, nitric acid, perchloric acid and chromium trioxide.	
0	HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:	Carbon monoxide.

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HEALTH DATA

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PERMISSIBLE EXPOSURE LIMITS

OSHA STANDARD: 200 ppm, 8-hr TWA

ACGIN TLV": 200 ppm, 8-hr TWA; 250 ppm, STEL; potential contribution to overall exposure possible via skin absorption.

IMMEDIATELY DANGEROUS TO LIFE AND MEALTH LEVEL: 25,000 ppm

EFFECTS OF EXPOSURE/TOXICITY DATA

ACUTE

INGESTION (SWALLOWING): Poisonous if swallowed. Can affect the optic nerve resulting in blindness. Can cause mental sluggishness, nausea and vomiting leading to severe illness, possibly death (in humans). Practically non-toxic to animals (oral LD50, rats: 7.5 g/kg).

INHALATION (BREATHING): Extremely high levels cause stupor, headache, nausea, dizziness and unconsciousness. Practically non-toxic to animals (inhalation LC50, rats, 4 hrs: 64,000 ppm).

SKIN CONTACT: Essentially non-irritating. Repeated or prolonged contact causes drying, brittleness, cracking and irritation. Slightly toxic to animals by absorption (dermal LDSO, rabbits: 2D g/kg).

EYE CONTACT: May cause eye injury which may persist for several days. Liquid, and vapor in high concentrations, causes irritation, tearing and burning sensation.

CHRONIC

KUTAGENICITY: <u>In vitro</u>, limited evidence of mutagenicity (mouse lymphoma forward mutation assay) <u>In vivo</u>, no information.

CARCINOGENICITY: No evidence of carcinogenicity to mice in two limited skin-painting studies and one oral study.

**REPRODUCTION:** No information.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION (SWALLOWING): Induce vomiting of conscious patient immediately by giving two glasses of water and pressing finger down throat. Contact a physician immediately.

INHALATION (BREATHING): Remove patient from contaminated area. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact a physician immediately.

SKIN CDNTACT: Remove contaminated clothing and wash contaminated skin with large amounts of water. If irritation persists, contact a physician.

EYE CONTACT: Flush eyes with water for at least 15 minutes. Contact a physician immediately.

NOTE TO PHYSICIAN: When plasma methanol concentrations are higher than 2D milligrams per deciliter, when ingested doses are greater than 30 milliliters, and when there is evidence of acidosis or visual abnormalities, a 10% solution of ethanol in 5% aqueous dextrose, administered intravenously, is a safe, effective antidote (<u>Western Journal of Medicine</u>, March 1985, p. 337).

#### SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Eliminate ignition sources. Avoid eye or skin contact. Place leaking containers in well-ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use an absorbent. Avoid runoff into storm sewers and ditches which lead to natural waterways. Call the Hational Response Center (800-424-8802) if spill is equal to or greater than reportable quantity (5000 lb/day) under "Superfund". All clean-up and disposal should be carried out in accordance with federal, state and local regulations. If required, state and local authorities should be notified.



# HILLSBORO ELEMENTARY SCHOOLS

MATERIAL SAFETY DATA SHEET

HILLSBORG, OR \$7123

WASTE DISPOSAL METHOD: This product when spilled or disposed is a hazardous solid waste as defined in Resource Conservation Recovery Act regulations (40CER261). Preferred method is incineration or biological treatment in federal/state approved facility.

#### SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use full-face NIOSH-approved self-contained breathing apparatus (SCBA) or other air-supplying full-face respirator.

### VENTILATION

LOCAL EXHAUST: Recommended when appropriate to control employee exposure.

HECHANICAL (GENERAL): Not recommended as the sole means of controlling employee exposure.

PROTECTIVE GLOVES: Neoprene or rubber. EYE PROTECTION: Chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT: For operations where spills or splashing can occur, use impervious body covering and boots. A safety shower and eye bath should be available.

## SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, well-ventilated area. Do not expose to temperatures above 49  $^{\circ}$ C (120 F). Keep away from heat, sparks and flame. Keep containers closed. Use only DOT-approved containers. Use spark-resistant tools. Do not load into compartments adjacent to heated cargo. When transferring follow proper grounding procedures. Use with adequate ventilation. Provide emergency exhaust. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing thoroughly before re-use. Discard contaminated leather clothing.

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