

**OLD WORLD INDUSTRIES, INC.**  
 4065 COMMERCIAL AVENUE  
 NORTHBROOK, ILLINOIS 60062-1851  
 847-559-2000 • FAX 847- 559-1329

**MATERIAL SAFETY DATA SHEET**

Page 1 of 8

Product Name: Methanol

Preparation Date: 7/24/01

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: Methanol

SYNONYMS: Methyl alcohol; wood alcohol

DISTRIBUTED BY: Old World Industries  
 4065 Commercial Avenue  
 Northbrook, IL 60062

PHONE NUMBERS: Inquiries - (847) 559-2000 8:00 am - 5:00 pm CST M-F  
 CHEMTREC - (800) 424-9300 24 Hours Every Day

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>%</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
Methanol	100	67-56-1	OSHA PEL - 200 ppm ACGIH TLV - 200 ppm (skin) ACGIH STEL - 250 ppm

**SECTION 3- HAZARDS IDENTIFICATION**

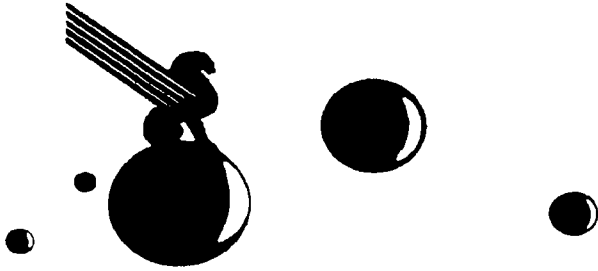
\*\*\*\*\* EMERGENCY OVERVIEW\*\*\*\*\*

Flammable, clear, colorless liquid. Vapors are heavier than air and may travel along the ground to remote ignition sources. Vapors may ignite explosively.

Excessive breathing of vapors can cause irritation of the respiratory tract and dizziness  
 Swallowing can cause blindness and death. Causes irritation to the skin, eyes and mucous membranes.

Keep away from heat, sparks and open flames. Avoid breathing vapors. Avoid contact with skin, eyes and clothing. Wear protective goggles and gloves and impervious clothing when handling this product. Wash thoroughly after handling.

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**SECTION 3 - HAZARDS IDENTIFICATION (continued)**

**POTENTIAL HEALTH EFFECTS**

**EYES:**

Liquid can cause severe irritation, even corneal burns. High concentrations of vapors may cause irritation.

**SKIN:**

Can cause moderate irritation, defatting cracking and dermatitis. Prolonged or repeated exposure to liquid can cause defatting and fissured dermatitis. Skin absorption can contribute to overall exposure. Persons with pre-existing skin disorders may be particularly susceptible. Skin Absorption may contribute to overall exposure.

**INGESTION (swallowing):**

May cause headache, dizziness, weakness, euphoria, drowsiness, shortness of breath, vomiting, and incoordination. Can also cause blindness and death. **Cannot be made non-poisonous.**

**INHALATION (breathing):**

Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, shortness of breath and headache.

**CHRONIC EFFECTS/ CARCINOGENICITY:**

This product (or component) is not listed in IARC Monographs, the NTP Seventh Annual Report or the ACGIH TLVs as a carcinogen or potential carcinogen. OSHA does not regulate it as a carcinogen.

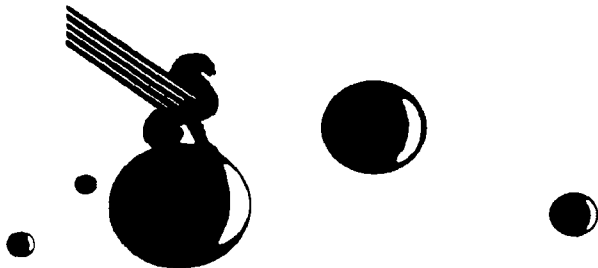
**SECTION 4 - FIRST AID MEASURES**

**EYE CONTACT:**

Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention. Do **not** use chemical antidote.

**SKIN CONTACT:**

Wash exposed area with lots of soap and water. Remove contaminated clothing and launder before re-use.



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**SECTION 4 - FIRST AID MEASURES (continued)**

**INGESTION (swallowing):**

Immediately drink two glasses of water. Induce vomiting by giving IPECAC syrup or by sticking finger to back of throat. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**INHALATION (breathing):**

If affected, move to fresh air. If breathing has stopped, give artificial respiration and call a physician.

**SECTION 5 - FIRE FIGHTING MEASURES**

**FLASH POINT:**

**52° F (11°C)**

**FLASH POINT METHOD : TCC**

**UPPER EXPLOSION LIMIT:**

**36.5%**

**LOWER EXPLOSION LIMIT:**

**6.7%**

**AUTOIGNITION TEMPERATURE:**

**Unavailable**

**SENSITIVITY/ SPARKS:**

**Unknown**

**SENSITIVITY/ STATIC ELECTRICITY:**

**Unknown**

**EXTINGUISH MEDIA:**

**Dry chemical, carbon dioxide, water spray or alcohol foam**

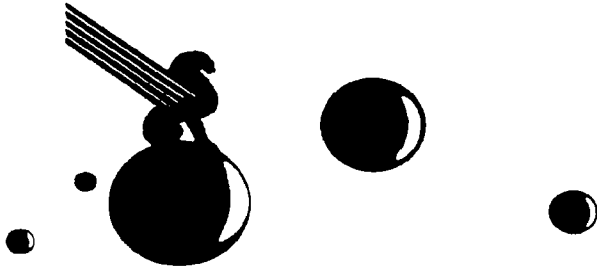
**FIRE AND EXPLOSION HAZARDS:**

**Vapors are heavier than air and may travel along the ground to remote ignition sources.**

**Vapors may tan ignite explosively. All 5 gallon and larger size containers should be properly bonded and grounded.**

**FIRE-FIGHTING EQUIPMENT:**

**Keep personnel removed from upwind. Wear full protective clothing and self-contained breathing apparatus with full face-piece. Cool containers with water. Water may be ineffective against large spills of flammable liquids. Decomposition/combustion products may include carbon monoxide and carbon dioxide.**



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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Eliminate all open flames, heat, sparks and other ignition sources from the area of the spill. Use only explosion-proof equipment. Persons not wearing protective equipment should be excluded from the area of the spill until clean up has been completed. Dike area of spill with sand or dirt to prevent spreading. Pump liquid to salvage tank or other containers. Remaining liquid may be absorbed on vermiculite or other absorbent material and shoveled into containers.

EPA has designated methanol as a hazardous substance. Spills may be required to be reported to the National Response Center.

**SECTION 7 - HANDLING AND STORAGE**

**HANDLING:**

Containers should be properly bonded and grounded before transferring contents to other containers. Use non-sparking tools and explosion-proof equipment when handling flammable liquids.

Avoid contact with skin, eyes and clothing. Avoid inhalation of vapors. Wash thoroughly after handling.

**STORAGE:**

Keep in closed or covered containers away from heat, sparks and open flames when not in use. Do not store near oxidizing materials. Store in cool dry place with adequate ventilation.

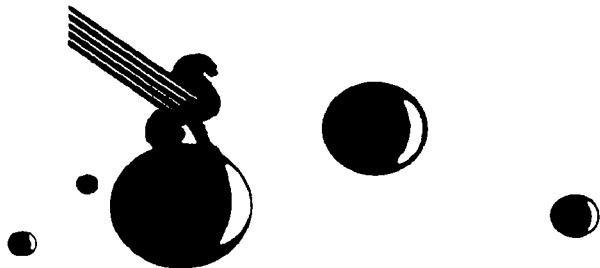
**SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:**

A NIOSH/MSHA approved supplied air respirator or canister-type respirator equipped with organic vapor cartridge is recommended if exposure exceeds established exposure limits or level of overexposure.

**SKIN PROTECTION:**

Wear Protective gloves such as Neoprene.



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**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)**

**EYE PROTECTION:**

Chemical splash goggles in compliance with OSHA regulations and full face-shield are advised.

**OTHER PROTECTION:**

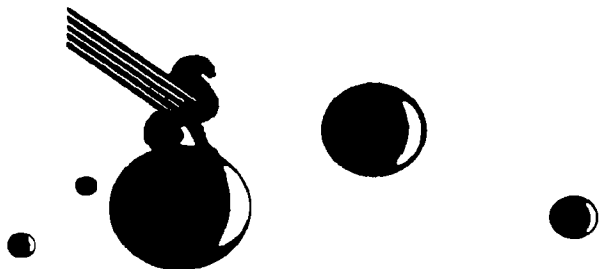
Impervious clothing and boots are recommended.

**ENGINEERING CONTROLS:**

Provide sufficient ventilation to maintain exposure below established exposure limits.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Colorless liquid @ 77°F (25°C)
<b>ODOR THRESHOLD:</b>	Unavailable
<b>SPECIFIC GRAVITY:</b>	-0.79
<b>VAPOR PRESSURE (mm Hg):</b>	Unavailable
<b>VAPOR DENSITY (Air = 1):</b>	1.11
<b>INITIAL BOILING POINT:</b>	148°F (64.6°C)
<b>EVAPORATION RATE:</b>	Slower (Butyl Acetate = 1)
<b>SOLUBILITY in WATER:</b>	100% @ 68°F (20°C)
<b>BULK DENSITY:</b>	Not applicable
<b>VOLATILE %:</b>	100%
<b>pH:</b>	Unavailable
<b>pH METHOD:</b>	Not Applicable



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**SECTION 10- STABILITY AND REACTIVITY**

**STABILITY (conditions to avoid):**

Stable under normal conditions.

**INCOMPATIBILITIES (materials to avoid):**

Avoid contact with strong acids oxidizers and alkali metals.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition may form carbon monoxide and carbon dioxide.

**HAZARDOUS POLYMERIZATION:**

Cannot occur.

**SECTION 11- TOXICOLOGICAL INFORMATION**

Toxicological information is based on information found in NIOSH Registry of Toxic Effects of Chemical Substances.

**SKIN & EYE IRRITATION**

Human (eye) - 5 ppm

Rabbit (skin) - 500 mg/24H (moderate)

Rabbit (eye) - 40 mg (moderate)

**TOXICITY DATA**

**Inhalation**

Rat LC<sub>Lo</sub> - 64000 ppm/4H

**Intraperitoneal**

Rat LD<sub>50</sub> - 9540 mg/kg

**Oral**

Human LD<sub>Lo</sub> - 340 mg/kg

Man LD<sub>Lo</sub> - 13 gm/kg

Mouse LD<sub>50</sub> - 870mg/kg

Rat LD<sub>50</sub> - 5628 mg/kg

**Intravenous**

Mouse LD<sub>50</sub> - 5673 mg/kg

**Subcutaneous**

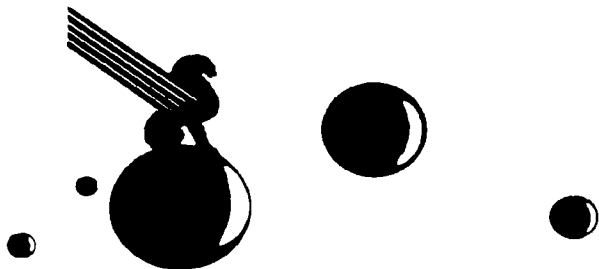
Mouse LD<sub>50</sub> - 9800 mg/kg

**Skin**

Rabbit LD<sub>50</sub> - 20 gm/kg

**Unreported**

Man LD<sub>Lo</sub> - 868



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**SECTION 12 - ECOLOGICAL INFORMATION**

**SECTION 13- DISPOSAL CONSIDERATIONS**

Incineration is the recommended disposal method for all chemical wastes such as this product. Material collected on absorbent materials may be deposited in a landfill in accordance with all applicable local, state and federal regulations. This product, if disposed of, is considered a hazardous waste (U154) under current RCRA regulations.

**SECTION 14 - TRANSPORT INFORMATION**

DOT Shipping Description: Methanol, 3 (flammable liquid), UN 1230, PG II

**SECTION 15 - REGULATORY INFORMATION**

**TSCA INFORMATION:**

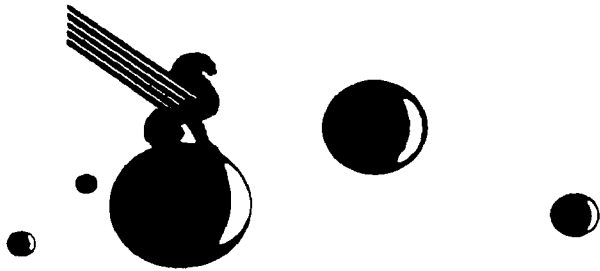
All components in this product are in compliance with TSCA Inventory requirements.

**EINECS:**

All components in this product are on the European Inventory of Existing Chemical Substances.

**CEPA:**

All components in this product are listed on the Canadian Domestic Substances List (DSL).



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**SECTION 15 - REGULATORY INFORMATION (continued)**

**CERCLA:**

Methanol has been designated as hazardous substances with an RQ of 5000#.

**SARA 313 INFORMATION:**

SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 472. This information must be included in all MSDS that are copied and distributed for this a material.

Components present in this product at a level which could require reporting under the statute are: methanol; CAS 67-56-1; 100%

**SECTION 16 - OTHER INFORMATION**

**HAZARD RATING:**

HEALTH	3	0 - LEAST
FIRE	3	1 - SLIGHT
REACTIVITY	0	2 - MODERATE
OTHER	-	3 - HIGH
		4 - EXTREME

**HAZARD RATING METHOD: HMIS**

**REASON FOR REVISION:**

Updated NTP information (Section 3).

The product information contained herein is believed to be accurate as of the date of the Material Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.

\*\*\*\*END OF REPORT\*\*\*\*