

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: METHYL HYDRATE
OTHER NAME:
DISTRIBUTED BY:

CODE: H545

WHMIS CLASSIFICATION: D1A; B2
TDG CLASSIFICATION: METHANOL; Class 3 (6.1); UN 1230; PG II

HAZARDOUS INGREDIENTS	%WT/WT	CAS NO.	TOXICITY DATA (LD₅₀ & LC₅₀)
Methanol	100%	67-56-1	LD _{LO} 340 mg/kg ACGIH TLV - 200 ppm LD ₅₀ Oral (rat) 5628 mg/kg

PHYSICAL DATA FOR PRODUCT

Physical State: Liquid Sp. Gravity: 0.7977 pH: 8.1
Boiling Point: 64.5°C Vapour Pressure: 96 mm Hg @ 20°C
Vapour Density: 1.105 @ 15°C Evaporation Rate: 4.6 (Butyl Acetate=1)
Freezing Point: -97.8°C
Solubility in Water: 100%
Appearance & Odour: Clear colorless liquid with a slight alcohol odour.

FIRE AND EXPLOSION DATA FOR PRODUCT

Flash Point (Test Method): 11°C - Tag closed cup
Flammable Limits in Air, % by vol. Lower: 6% Upper: 36.5%
Fire Extinguishing Substances: (X) Water Fog (X) Foam (X) CO₂
(X) Dry Chem () Other:
Hazardous Combustion Products: Toxic gases and vapours, such as carbon monoxide and unburned methanol.

Special Firefighting Procedures: Use self contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode. Wear full protective clothing.

REACTIVITY DATA FOR PRODUCT

Incompatibility: () Water (X) Oxidizing Material (X) Acid (X) Base
(X) Other: Nitrates, perchlorates or sulfuric acid.
Hazardous Decomposition Products: Carbon monoxide.

Chemical Stability: Stable.

*N/A - Not applicable.

Product Name: **METHYL HYDRATE**

HEALTH HAZARD INFORMATION FOR PRODUCT

EMERGENCY and FIRST AID PROCEDURES

Inhalation: Get fresh air. Get medical help immediately. Administer oxygen if the victims breathing becomes difficult.

Ingestion: Induce vomiting only if the victim is conscious. Drink 3 glasses of milk, water or 4% sodium bicarbonate. Get immediate medical attention.

Eyes: Wash thoroughly with plenty of water for at least 15 minutes. Get medical attention.

Skin: Wash thoroughly with water for at least 15 minutes.

EFFECTS OF OVEREXPOSURE (Acute and Chronic)

Inhalation: Very toxic. Symptoms of intoxication by inhalation may include eye, nose and throat irritation, dizziness, headache & sickness.

Ingestion: Taken orally methanol is very poisonous, a few ounces being sufficient to produce blindness and death. Death from less than 30 ml has been reported.

Eyes: Irritation to eyes. Visual impairment or complete blindness.

Skin: Methanol is readily absorbed transcutaneously. Excessive skin contact should be avoided.

PREVENTIVE MEASURES

Steps to be taken upon release or spillage (including neutralizing):

Notify safety personnel. Remove all sources of ignition. Provide adequate ventilation. Absorb on vermiculite, paper or other absorbent. Burn in any approved or open pit away from buildings and people. Do not flush to sewer.

Waste disposal method:

It can be incinerated. Follow federal, state and local regulations.

Handling and Storage Requirements:

Keep away from all sources of ignition. Use with adequate ventilation. Keep container closed.

Ventilation Requirements (Local or General):

Use under well ventilated area to meet TLV requirements.

Respiratory Protection:

Use air supplies or self-contained breathing apparatus where concentration is above TLV.

Eye Protection:

Safety glasses with sideshield.

Other Protection:

Gloves and coveralls should be worn.