

Safety Data Sheet (SDS):

Wet Methanol

Version 1.1

Revision Date 09/11/2015

Section 1 : Identification

- Product Identifier: Wet Methanol
- Company Identification : Glycerin Traders LLC 2010 Michigan Ave. LaPorte, IN 46350
219-369-4991 office 219-851-6089 mobile CHEMTREC 800-424-9300
dzeedyk@hotmail.com www.glycerintraders.com
- Use: Intermediary

Section 2 : Hazard(s) Identification

- GHS Classification: Flammable Liquid (Category 2) H225
Acute toxicity, Oral (Category 3) H301
Acute toxicity, Inhalation (Category 3) H331
Acute toxicity, Dermal (Category 3) H311



GHS02



GHS06



GHS08

- GHS Labeling:
- Signal Word: **DANGER**
- Hazard Statements: H225 Highly flammable liquid and vapor
H301 Toxic if swallowed
H311 Toxic in contact with skin
H331 Toxic if inhaled
H370 Causes damages to organs (liver, kidneys, CNS, optic nerve, dermal, oral)
- Precautionary Statements: P210 Keep away from heat, sparks, open flames, hot surfaces – NO Smoking
P233 Keep containers tightly closed
P240 Ground/Bond receiving equipment and container

- P241 Use explosion-proof electrical, ventilating, lighting equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P260 Do not breathe mist, vapors, or spray
- P264 Wash exposed skin thoroughly after handling
- P270 Do not eat, drink, or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves, protective clothing, eye protection, face protection
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER, or doctor/physician
- P303 + P361 + P353 IF ON SKIN (Hair): Remove immediately all contaminated clothing; rinse skin with water/shower
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P330 IF SWALLOWED: Rinse mouth
- P363 Wash contaminated clothing before reuse
- P370 + P378 IN CASE OF FIRE: Use carbon dioxide (CO₂), powder, alcohol-resistant foam for extinction
- P403 Store in a well-ventilated place
- P235 Keep cool
- P405 Stored locked up
- P501 Dispose of contents/containers to comply with local, state, and federal regulations

- Other Hazards not Contributing to the Classification: None
- Unknown Acute Toxicity: Not applicable

Section 3 : Composition/Information on Ingredients

| CAS # | CHEMICAL NAME | WEIGHT (%) | Exposure Limits |
|-----------|---------------|------------|---|
| 67-56-1 | Methanol | 90-98 | OSHA PEL: 200 ppm, 260 mg/m ³ , 8 Hr TWA ACGIH TLV: 200 ppm, 262 mg/m ³ , 8 Hr TWA 250 ppm, 328 mg/m ³ , STEL/SKIN |
| 7782-18-5 | Water | 0-10 | |

Synonyms Methyl Alcohol

Formula CH₄OH

Molecular Weight 32.04 g/mol

EC-No. 200-659-6

Index-No. 603-001-00-X

Classification: Flammable Liquid 2; Acute Tox. 3, STOT SE 1; H225, H301, H311, H331, H370 (see section 16)

Section 4 : First-Aid Measures

GENERAL: Check for vital functions. If unconscious, maintain adequate airway and respiration. Under respiratory distress, artificial respiration or oxygen. If cardiac arrest, perform resuscitation. If conscious with labored breathing, half-seated. If in shock, lay on back with legs slightly raised. Vomiting, prevent asphyxia/aspiration pneumonia. Prevent cooling by covering victim, keep watching victim, give psychological aid, keep victim calm, avoid physical strain, NEVER give alcohol to drink.

CONSULT A PHYSICIAN. SHOW THIS SDS TO THE DOCTOR IN ATTENDANCE.

IF INHALED: Remove the victim to fresh air. Immediately consult a doctor/medical service.

IF SKIN CONTACT: Wash immediately with lots of water. Soap may be used. DO NOT apply chemical neutralizing agents. Remove clothing before washing. Consult a doctor/medical service.

UPON EYE CONTACT: Rinse with water. Take victim to ophthalmologist if irritation persists.

AFTER INGESTION: Rinse mouth with water. Give nothing to drink. Do NOT induce vomiting. Immediately consult a doctor/medical service. Call Poison Information Center for guidance. Ingestion of large quantities: Take immediately to hospital. Take the container/vomit to hospital. Doctor: administration of chemical antidote; gastric lavage.

Most Important Symptoms Upon Exposure

AFTER INHALATION: Slight irritation. **EXPOSURE TO HIGH CONCENTRATIONS:** Coughing, nausea, vomiting.

AFTER SKIN CONTACT: Slight irritation.

AFTER EYE CONTACT: Redness of eye tissue; lacrimation.

AFTER INGESTION: Nausea. Vomiting. **AFTER ABSORPTION OF HIGH QUANTITIES,** the following symptoms **MAY APPEAR LATER:** *Change in blood composition. Headache. Weakness. Abdominal pain. Muscle pain. Central nervous system depression. Dizziness. Mental confusion. Drunkenness. Coordination disorders. Disturbed motor response. Disturbances of consciousness. Visual disturbances. Blindness. Respiratory difficulties. Cramps/uncontrolled muscular contractions.*

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin rash/inflammation. Headache. Disturbed tactile sensibility. Visual disturbances. Sleeplessness. Gastrointestinal complaints. Cardiac and blood circulation effects.

Indication of any immediate medical attention and special treatment needed: Hospitalize at once.

Section 5 : Fire-Fighting Measures

Extinguishing Media: Preferably, alcohol resistant foam. Water spray. BC Powder. Carbon dioxide

Unsuitable Extinguishing Media: Solid water jet ineffective as extinguishing media.

Special Hazards Arising from the Substance:

- Fire Hazard: DIRECT FIRE HAZARD. Highly flammable. Gas/vapor flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks.
- Explosion Hazard: DIRECT EXPLOSION HAZARD. Gas/vapor explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. May be ignited by sparks. Reactions with explosion hazards: See "Reactivity Hazard"
- Reactivity Hazard: On heating, release of toxic/corrosive/combustible gases/vapors (formaldehyde). Upon combustion: CO and CO₂ are formed. Violent to explosive reaction with (some) metal powders and with (strong) oxidizers. Violent exothermic reaction with (some) acids and with (some) halogen compounds.

Advice to Firefighters:

- Wear self-contained breathing apparatus for fire fighting.
- Cool tanks/drums with water spray/remove them into safety. Do not remove the load if exposed to heat. Take into account fire-fighting water. Use water moderately and if possible collect or contain it.

Section 6 : Accidental Release Measures

For non-emergency personnel

Protective equipment: Appropriate encapsulating suit

Emergency procedures: Keep upwind. Mark the danger area. Consider evacuation. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.

For internal emergency responders

Protective equipment: Equip clean-up crew with appropriate ppe and spill containment.

Emergency procedures: Stop leak if safely able to do so. Ventilate area thoroughly.

Environmental Precautions

Prevent soil and water pollution. Prevent spreading into sewers.

Methods and material for containment and cleaning up

- **Containment:** Contain released substance, pump into suitable containers. Consult “Material-Handling” to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute combustible/toxic gases/vapors with water spray. Take account of toxic/corrosive precipitation water. Provide equipment/receptacles with earth. Do not use compressed air for pumping over spills.
- **Clean Up:** Take up spill into a non-combustible material (e.g. sand, earth, vermiculite, slaked lime, or soda ash). Scoop absorbed substance into closing containers. See “Material-Handling” for suitable container materials. Carefully collect the spill. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

Reference to Other Sections

Section 8 (ppe) and Section 13 (disposal)

Section 7 : Handling and Storage

Precautions for Safe Handling

Comply with all legal requirements. Remove contaminated clothing immediately and clean or dispose of appropriately. Handle uncleaned containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge into drains. Do not use compressed air for pumping over. Use spark-/explosion-proof appliances and lighting systems. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe strict hygiene. Keep containers tightly closed. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

Hygiene Measures

Do not eat, drink, or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Wash contaminated clothing before reuse.

Conditions for Safe Storage, including Incompatibilities

| | |
|--------------------------------------|--|
| Incompatible products | Strong oxidizers, strong bases, strong acids, acid anhydrides, acid chlorides |
| Incompatible materials | Direct sunlight, heat sources, sources of ignition |
| Heat and Ignition sources | KEEP SUBSTANCE AWAY FROM: Heat sources, ignition sources |
| Prohibitions on Mixed Storage | KEEP SUBSTANCES AWAY FROM: Combustible materials, oxidizing agents, strong acids and bases, halogens, amines, water/moisture |
| Storage Area | Store at room temperature. Keep out of direct sunlight. Store in dry area. Keep container in a well-ventilated space. Fireproof storeroom. |

| | |
|--------------------------------|--|
| | Keep locked up. Provide for a dike or tub to contain spills. Provide the tank with earthing. Unauthorized persons not admitted. Meet all legal requirements. |
| Special Packaging Rules | Dry, clean, correctly labeled. Secure fragile packages in solid containers. |
| Packaging Materials | SUITABLE MATERIAL: Steel, stainless steel, iron, glass. |
| | MATERIALS TO AVOID: Lead, aluminum, zinc, polyethylene, PVC |

Section 8 : Exposure Controls/Personal Protection

Control Parameters

| | |
|----------------|--------------------|
| USA ACGIH TLV | 200 ppm TWA |
| USA ACGIH STEL | 250 ppm TWA (SKIN) |
| USA OSHA PEL | 200 ppm TWA |

American Conference of Governmental Industrial Hygienists

Threshold Limit Value

Short-Term Exposure Limit

Occupational Safety and Health Administration Permissible Exposure Limit

Parts per million

Time-Weighted Average (8 hour)

Engineering Controls

Emergency eye wash stations and safety showers should be available in the immediate area of any potential exposure. Keep concentrations well below lower explosive limits (LEL).

Personal Protective Equipment

Safety glasses, protective clothing, gloves, full protective fire-resistant clothing, full face shield

(Respiratory protection as required to maintain exposure at or below permissible exposure limit)

Materials for Protective Clothing

| | |
|-----------------------------|--|
| EXCELLENT Resistance | No Data Available |
| GOOD Resistance | Polyethylene/ethylene vinyl alcohol Styrene-butadiene rubber, Viton |
| LESS Resistance | Chloroprene rubber, chlorinated polyethylene, natural rubber, nitrile rubber, PVC |
| POOR Resistance | Leather, neoprene, nitrile rubber, polyethylene, PVA, PVC, polyurethane |

Hand protection: Gloves

Eye protection: Safety glasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166

Skin and body protection: Protective clothing; head/neck protection

Respiratory Protection: Half or full-face respirator with appropriate alcohol canisters if above exposure limit; in high vapor concentration self-contained respirator

Section 9 : Physical and Chemical Properties

Appearance: liquid

Odor: mild alcohol

Solubility: miscible with water

Vapor Density: 1.1 (Air = 1.0)

pH: apparent 7

% Volatiles by weight 1

Boiling Point: 64.7 degrees C

Melting Point: -97.7 degrees C

Vapor Pressure: 127 mm Hg at 25 degrees C

Evaporation Rate: >1 (Butyl Acetate = 1)

LEL 6% UEL 36%

Flash Point 12 degrees C

Section 10 : Stability and Reactivity

Reactivity: On heating, release of toxic/corrosive/combustible gases/vapors (formaldehyde). Upon combustion, CO and CO₂ are formed. Violent to explosive reaction with (some) metal powders and with (strong) oxidizers. Violent explosive reaction with (some) acids and with (some) halogen compounds.

Chemical Stability: Hygroscopic

Possibility of hazardous reactions: See above

Conditions to Avoid: Direct sunlight, high temperature, incompatible materials, open flame, sparks, overheating

Incompatible Materials: Strong oxidizers, strong bases, strong acids, peroxides, acid anhydrides, acid chlorides.

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide

Hazardous Polymerization: Has not been reported

Section 11 : Toxicological Information

Acute Toxicity: Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

| | |
|----------------------------|---|
| LD 50 oral rat | >5000 mg/kg (1187-2769 mg/kg body weight rat) |
| LD50 dermal rabbit | 15800 mg/kg (rabbit) |
| LC50 inhalation rat (mg/l) | 85 mg/l/4h (rat) |
| LC50 inhalation rat (ppm) | 64000 ppm/4 h (rat) |

| | |
|---|---|
| Skin corrosion/irritation: | Not classified |
| Serious eye damage/irritation: | Not classified |
| Respiratory or skin sensitization: | Not classified |
| Germ cell mutagenicity: | Not classified |
| Carcinogenicity: | Not classified |
| Reproductivity toxicity: | Not classified |
| Specific target organ toxicity (single exposure): | Causes damage to organs (liver, kidneys, CNS, optic nerve, dermal, oral) |
| Specific target organ toxicity (repeated exposure): | Not classified |
| Aspiration hazard: | Not classified |
| Symptoms/injuries after inhalation: CONCENTRATIONS: Coughing, Symptoms similar to those listed under ingestion. | Slight irritation. EXPOSURE TO HIGH |
| Symptoms/injuries after skin contact: listed under ingestion. | Slight irritation. Symptoms similar to those |
| Symptoms/injuries after eye contact: | Redness of eye tissue, lacrimation. |
| Symptoms/injuries after ingestion: | Nausea and vomiting. AFTER ABSORPTION OF HIGH QUANTITIES FOLLOWING SYMPTOMS MAY APPEAR LATER: Change in blood composition. Headache. Feeling of weakness. Abdominal pain. Muscular pain. Central Nervous System depression. Dizziness. Mental confusion. Drunkenness. Coordination disorders. Disturbed motor response. Disturbances of consciousness. Visual disturbances. Blindness. Respiratory difficulties. Cramps/uncontrolled muscular contractions. |

Chronic Symptoms: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:

Red skin. Dry skin. Skin rash/inflammation. Headache. Disturbed tactile sensibility. Visual disturbances. Sleeplessness. Gastrointestinal complaints. Cardiac and blood circulation effects.

Section 12 : Ecological Information (non-mandatory)

Section 13 : Disposal Considerations (non-mandatory)

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 : Transport Information (non-mandatory)

Section 15 : Regulatory Information (non-mandatory)

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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