SAFETY DATASHEET

1. Identification

Product identifier: Methanol

Other means of identification

Synonyms: Eclipse®; e-WIPE®

Recommended restrictions

Recommended use: For professional use only.
Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Company Name: Photosol, Inc.
Address: 318 Seaboard Avenue
         Venice, FL 34285
Telephone: CustomerService: 941.445.2231
Contact Person: David M. Stone
E-mail: orders4photosol@gmail.com

Emergency telephone number:
CHEMTREC: 1-800-424-9300 global. Our customer # CCN-17280

2. Hazard(s) Identification

Hazard Classification

Physical Hazards
Flammable liquids Category2

Health Hazards
Acute toxicity(Oral) Category3
Acute toxicity(Dermal) Category3
Acute toxicity(Inhalation-vapor) Category3
Skin Corrosion/Irritation Category2
Serious Eye Damage/Eye Irritation Category2A
Toxic to reproduction Category2
Specific Target Organ Toxicity- Single Exposure

Target Organs
1. Central nervous system, Eyes

Unknown toxicity - Health
Acute toxicity, inhalation, dust or mist 100%

Label Elements

Hazard Symbol:

![Hazard Symbols]

Signal Word: Danger

Hazard Statement: Toxin in contact with skin.
Toxic if inhaled.
Toxic if swallowed.
Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
Causes damage to organs.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof[ electrical/ventilating/lighting] equipment. Use non-sparking tools. Take action to prevent static discharges.

Response: If EXPOSED or concerned: Get medical advice/attention. IF ON SKIN(or hair):Takeoff immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISONCENTER/doctor.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):
Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
3. Composition/information on ingredients

Substances

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>90-100%</td>
</tr>
</tbody>
</table>

*All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion: Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs.

Inhalation: Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory system and skin.

Hazards: None known.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Static charges generated by emptying package in or near flammable vapor may cause flash fire.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Can be ignited easily and burns vigorously. Vapor from the solvent may accumulate in container head space resulting in flammability hazard. Fire may produce irritating, corrosive and/or toxic gases.
**Special protective equipment and precautions for firefighters**

**Special firefighting procedures:**
Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for fire-fighters:**
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:**
Use personal protective equipment. Keep unauthorized personnel away. Keep up wind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:**
In case of leakage, eliminate all ignition sources. Use non-sparking tools. All equipment used when handling the product must be grounded. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:**
Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

**Environmental Precautions:**
Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, watercourses or onto the ground.

**7. Handling and storage**

**Precautions for safe handling:**
DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take action to prevent static discharges. Use non-sparking tools. Use personal protective equipment as required. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

**Conditions for safe storage, including any incompatibilities:**
Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.
### Control Parameters

#### Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>TWA</td>
<td>200 ppm</td>
<td>US. ACGIH Threshold Limit Values(2011)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>250 ppm</td>
<td>US. ACGIH Threshold Limit Values(2011)</td>
</tr>
<tr>
<td>SKIN_DES</td>
<td></td>
<td>Can be absorbed</td>
<td>US. ACGIH Threshold Limit Values(2011)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>through the skin.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>325mg/m3</td>
<td>US.NIOSH: Pocket Guide to Chemical Hazards(2010)</td>
</tr>
</tbody>
</table>

#### Biological Limit Values

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>15mg/l (Urine)</td>
<td>ACGIHBEL(03 2013)</td>
</tr>
</tbody>
</table>

### Appropriate Engineering Controls

No data available.
Individual protection measures, such as personal protective equipment

**General information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eyewash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

**Eye/face protection:** Chemical goggles and face shield are recommended.

**Skin Protection**

**Hand Protection:** Chemical resistant gloves

**Other:** Wear suitable protective clothing and gloves.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash contaminated clothing before reuse.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor:</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>-97.8°C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>64°C (101.3kPa)</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>11-12 °C(Closed Cup)</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper/lower limit on flammability or explosive limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability limit-upper(%):</td>
</tr>
<tr>
<td>Flammability limit-lower(%):</td>
</tr>
<tr>
<td>Explosive limit-upper(%):</td>
</tr>
<tr>
<td>Explosive limit-lower(%):</td>
</tr>
<tr>
<td>Vapor pressure:</td>
</tr>
<tr>
<td>Vapor density:</td>
</tr>
<tr>
<td>Density:</td>
</tr>
<tr>
<td>Relative density:</td>
</tr>
<tr>
<td>Solubility(ies)</td>
</tr>
<tr>
<td>Solubility in water:</td>
</tr>
<tr>
<td>Solubility (other): ether: Miscible acetone: Soluble benzene: Miscible chloroform: Soluble ethanol: Miscible</td>
</tr>
</tbody>
</table>
Partition coefficient (n-octanol/water): -0.77
Auto-ignition temperature: 240°C
Decomposition temperature: No data available.
Viscosity: No data available.

Other information
Liquid conductivity: 0.45µS/cm
Molecular weight: 32.04g/mol(CH₄O)

10. Stability and reactivity

Reactivity: Contact with metals may evolve flammable hydrogen gas.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid:  Heat, sparks, flames. Sunlight.

Incompatible Materials:  Oxidizing agents. Strong oxidizing agents, Acids

Hazardous Decomposition

Thermal decomposition may release oxides of carbon. Formaldehyde.

11. Toxicological information

Information on likely routes of exposure

Inhalation:  Toxic by inhalation.

Skin Contact:  Toxic in contact with skin.

Eye contact:  Causes serious eye irritation.

Ingestion:  Toxic if swallowed.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:  LD50 (Rat): 5,628mg/kg

Dermal

Product:  LD50 (Rabbit)15,800mg/kg

Inhalation

Product:  LC50 (Rat, 1h) >145000ppm

LC50 (Rat, 4h): 64000ppm

Repeated dose toxicity

Product:  In serious cases absorption of methanol in the body may lead to damage to the eyesight.

Skin Corrosion/Irritation

Product:  Causes skin irritation.

Serious Eye Damage/ Eye Irritation

Product:  Causes eye irritation.

Respiratory or Skin Sensitization

Product:  Not a skin sensitizer.

Carcinogenicity

Product:  This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified


No carcinogenic components identified

Germ Cell Mutagenicity
In vitro
Product: No mutagenic components identified

In vivo
Product: No mutagenic components identified

Reproductive toxicity
Product: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity- Single Exposure
Product: Central nervous system. Eyes.

Specific Target Organ Toxicity - Repeated Exposure
Product: None known.

Target Organs
Specific Target Organ Toxicity-Single Exposure: Central nervous system, Eyes

Aspiration Hazard
Product: No data available.

Specified substance(s):
  Methyl alcohol Not classified

Other effects: None known.

12. Ecological information

Eco toxicity:

Acute hazards to the aquatic environment:

  Fish
  Product: LC50 (Fat head minnow (Pimephales promelas), 96h): >100mg/l

Aquatic Invertebrates
Product: EC50 (Waterflea (Daphnia magna), 48h): >10,000mg/l

Chronic hazards to the aquatic environment:

  Fish
  Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

  Biodegradation
  Product: Expected to be readily biodegradable.

BOD/COD Ratio
Product: No data available.

Bio accumulative potential
Bio concentration Factor (BCF)
Product: May accumulate in soil and water systems.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: -0.77

**Mobility in soil:** No data available.

**Other adverse effects:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

#### DOT

- **UN Number:** UN1230
- **UN Proper Shipping Name:** Methanol
- **Transport Hazard Class(es):**
  - **Class:** 3
  - **Label(s):** 3
  - **Packing Group:** II
  - **Marine Pollutant:** No
  - **Special precautions for user:** Not determined.

#### IMDG

- **UN Number:** UN1230
- **UN Proper Shipping Name:** METHANOL
- **Transport Hazard Class(es):**
  - **Class:** 3
  - **Label(s):** 3,6.1
  - **EmS No.:** F-E,S-D
  - **Packing Group:** II
  - **Marine Pollutant:** No
  - **Special precautions for user:** Not determined.

#### IATA

- **UN Number:** UN1230
- **Proper Shipping Name:** Methanol
- **Transport Hazard Class(es):**
  - **Class:** 3
  - **Label(s):** 3,6.1
  - **Packing Group:** II
  - **Marine Pollutant:** No
  - **Special precautions for user:** Not determined.

### 15. Regulatory information

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt.D)**

None present or none present in regulated quantities.


None present or none present in regulated quantities.
CERCLA Hazardous Substance List (40CFR302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>5000lbs.</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Flammable liquids
- Acute toxicity
- Skin Corrosion / Irritation
- Serious Eye Damage / Eye Irritation
- Toxic to reproduction
- Specific Target Organ Toxicity - Single Exposure

Static-accumulating flammable liquid

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>5000lbs.</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>10000 lbs.</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reporting threshold for manufacturing and other users</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>10000lbs. 25000lbs.</td>
</tr>
</tbody>
</table>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40CFR68.130):
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40CFR117.3):
None present or none present in regulated quantities.

US State Regulations

US California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.
Methyl alcohol Developmental toxin. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

US New Jersey Worker and Community Right-to-Know Act

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
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</tbody>
</table>

US Massachusetts RTK- Substance List

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
</tr>
</tbody>
</table>

US Pennsylvania RTK-Hazardous Substances

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
</tr>
</tbody>
</table>
US Rhode Island RTK
Chemical Identity
Methyl alcohol

International regulations
Montreal protocol
Not applicable
Stockholm convention
Not applicable
Rotterdam convention
Not applicable
Kyoto protocol
Not applicable

16. Other information, including date of preparation or last revision

NFPA Hazard ID

Flammability
Health
Reactivity
Special hazard.

Hazard rating: 0-Minimal; 1-Slight; 2-Moderate; 3-Serious; 4-Severe; RNP-Rating not possible

Issue Date: 01-01-2019
Revision Information: Not relevant.
Version#: 3.0
Source of information: Sources of information used in preparing this SDS included one or more of the following: results from supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer’s SDSs and other sources, as appropriate.

Further Information: No data available.
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