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Revision Date 04 JANUARY 2019

SAFETY DATA SHEET

1. Identification

Product identifier: Eclipse Optic Cleaner® ; e-wipe®;**Other means of identification****Synonyms:****Recommended use and restriction on use****Recommended use:** These products are intended for cleaning optical glass lenses, filters, sensors such as those used in photography, binoculars, telescopes, etc. See specific product packaging for instructions on use.**Restrictions on use:** Do not use these products on eyeglasses with any coatings or plastics of any kind.**Details of the supplier of the safety data sheet****Manufacturer**

Company Name: Photosol, Inc.
Address: 318 Seaboard Ave,
Venice, FL 34285
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CCN17280

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 Category1

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Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement:

Toxic 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 Statement

Prevention:

Read instructions with product 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/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Take precautionary measures against static discharge.

Response:

IF EXPOSED or CONCERNED: Get medical advice / attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin or hair with water/shower. IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes and seek immediate medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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.

Other hazards which do not result in GHS classification:

Static accumulating flammable liquids can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.



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3. Composition / information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent(%)
METHYL ALCOHOL	Methanol	67-56-1	90-99.0%
ETHYL ALCOHOL	Ethanol	64-17-5	.01-10%

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 in to 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.

Indication of immediate medical attention and special treatment needed

- Treatment:** Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

- General Fire Hazards:** 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.

Suitable (and unsuitable) extinguishing media

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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.



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Special protective equipment and precautions for firefighters

Special firefighting procedures:

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

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.

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:

Eliminate all ignition sources if safe to do so. Use only 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, water courses 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 precautionary measures against static discharge. Use only 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.



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8. Exposure controls / personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
METHYL ALCOHOL	TWA	200 ppm	US. ACGIH Threshold Limit Values(2011)
	STEL	250 ppm	US. ACGIH Threshold Limit Values(2011)
	STEL	325mg/m3	US.NIOSH: Pocket Guide to Chemical Hazards(2010)
	REL	260mg/m3	US.NIOSH: Pocket Guide to Chemical Hazards(2010)
	PEL	260mg/m3	US.OSHATableZ-1 Limits for Air Contaminants(29 CFR1910.1000)(02 2006)
	TWA	260mg/m3	US.OSHATableZ-1-A(29 CFR 1910.1000) (1989)
	STEL	325mg/m3	US.OSHATableZ-1-A(29 CFR 1910.1000) (1989)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
METHYL ALCOHOL (methanol: Sampling time: End of shift.)	15mg/l (Urine)	ACGIHBEL(03 2013)

Appropriate Engineering Controls

No data available.



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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

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Characteristic, Pungent
Odor threshold:	No data available.
pH:	No data available.
Melting point / freezing point:	-97.8°C
Initial boiling point and boiling range:	64°C (101.3kPa)
Flash Point:	11-12 °C (Closed Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	Class IB Flammable Liquid
Upper/lower limit on flammability or explosive limits	
Flammability limit-upper(%):	36%(V)
Flammability limit-lower(%):	6%(V)
Explosive limit-upper(%):	No data available.
Explosive limit-lower(%):	No data available.
Vapor pressure:	16.9kPa(25°C)
Vapor density:	1.11AIR=1



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Relative density:	0.8(20°C)
Solubility(ies)	
Solubility in water:	1,000g/l miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol / water):	-0.77
Auto-ignition temperature:	464°C
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
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 Products:	Thermal decomposition may release oxides of carbon. Formaldehyde. Toxic gas

11.Toxicological information

Information on likely routes of exposure

Ingestion:	Toxic if swallowed.
Inhalation:	Toxic by inhalation.
Skin Contact:	Toxic in contact with skin.
Eye contact:	Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure) Oral Product:

LD50 (Rat):5,628mg/kg
 LD50 (Mouse):7,300mg/kg
 LD50 (Rabbit):14,300mg/kg

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

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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.



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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

US OSHA Specifically Regulated Substances (29CFR1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No carcinogenic components identified

In vivo

Product: No carcinogenic 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.

Aspiration Hazard

Product: No data available.

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product

LC50 (Fathead minnow Pimephales

Promelias), 96h:>100 mg/l

Aquatic Invertebrates

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

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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.



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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 : Not regulated. If packaged according to DOT and/or carrier's requirements for ground/surface transport for Other Regulated Materials, Class D (ORM-D)

IATA : Consumer Commodity, ID8000
Class 9 Packing Instruction 910 (There is no Packing Group Designation) For International air shipments only

IMDG : Regulated.
(UN1993) Page #
3230
Flammable Liquid NOS & Marine Pollutant

This product may be shipped via surface (ground) services if properly packaged and marked as a CONSUMER COMMODITY ORM-D. Consult carrier regulations for packaging requirements and suitability of mailing of ORM-D materials.

SPECIAL NOTE: Many carriers may not or will not allow this product to be shipped without knowing the specific chemical identities involved. In such cases, because of the Trade Secret designation, the product may not be offered for transport via these carriers.



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15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40CFR707, Subpt. D)

US OSHA Specifically Regulated Substances (29CFR1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40CFR302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
METHYL ALCOHOL	5000lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate)

Chronic (Delayed)

Fire

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
METHYL ALCOHOL	5000lbs.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
METHYL ALCOHOL	10000lbs

SARA 313 (TRI Reporting)

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
METHYL ALCOHOL	10000lbs	25000lbs.

Clean Water Act Section 311 Hazardous Substances (40CFR117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40CFR68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

METHYL ALCOHOL	Developmental toxin. WARNING: This product contains a chemical known to the State of California to cause birth defects or
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other reproductive harm.

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

Chemical Identity

METHYL ALCOHOL

US. Massachusetts RTK- Substance List

Chemical Identity

METHYL ALCOHOL

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

METHYL ALCOHOL

US. Rhode Island RTK

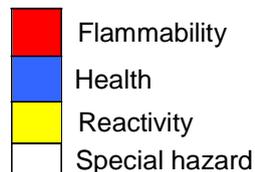
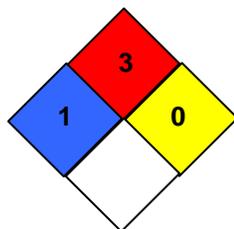
Chemical Identity

METHYL ALCOHOL ;

METHANOL

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

NFPA Hazard ID



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

Issue Date: 05-20-2015

Revision Date: No data available.

Version#: 1

Further Information: No data available.

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