



Photographic Solutions

Safety Data Sheet

Eclipse®

SDS Revision Date: 01/01/2023

1. Identification

1.1 Product identifier

Product Identity:

Eclipse® Optic Cleaner

Alternate Names:

Cine•Swab®; Digital Survival Kit®; E-Wipe®

Sensor Cleaning Swab Kit + Eclipse®

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

These products are intended for cleaning optical glass lenses, filters, sensors such as those used in photography, binoculars, telescope, etc. See specific product packaging for instruction on use.

Restrictions on use:

Do not use these products on eyeglasses with any coatings or plastic of any kind.

1.3 Details of the supplier of the data sheet

Company Name:

Photosol, Inc. dba Photographic Solutions
6010 New Utrecht Ave Brooklyn, NY 11219 USA

Emergency:

CHEMTREC (CCN17280)

USA: (800) 424-9300 **International:** +1 (703) 527-3887

Customer Service:

Photosol, Inc. dba Photographic Solutions

Phone (929) 562-1730

2. Hazard(s) Identification

2.1 Hazard Classification

Physical Hazard:

Flammable liquids

Category2

Health Hazard:

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

2.2 Label Elements

Hazard Symbol:



Signal Word:

Hazard Statement:

Danger

Toxic in contact with skin.

Toxic if inhaled.

Toxic if swallowed.

Highly flammable liquid and vapor.

Causes skin irritation.



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Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
Causes damage to organs.

2.3 Precautionary Statements

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.

3. Composition/Information on Ingredients

3.1 Substance

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	1-10%

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First Aid Measures

4.1 Description of first aid measures

General:

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



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contact lenses. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any 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.

5.1 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.

5.2 Special Protective Equipment and Precautions for Fire-Fighters

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 Measure

6.1 Personal precautions, protective equipment and emergency procedures

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 cleanup: 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.



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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.

8. Exposure Controls and Personal Protection

8.1 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.OSHA Table Z-1 Limits for Air Contaminants(29 CFR 1910.1000)(02 2006)
	TWA	260mg/m3	US.OSHA Table Z-1-A(29 CFR 1910.1000) (1989)
	STEL	325mg/m3	US.OSHA Table Z-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)	ACGIH BEL(03 2013)

Appropriate Engineering Controls: No Data Available

8.2 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



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Eye / face protection:	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.
Skin Protection/Hand Protection:	Chemical goggles and face shield are recommended.
Other:	Chemical resistant gloves.
Respiratory Protection:	Wear suitable protective clothing and gloves.
Hygiene measures:	In case of inadequate ventilation use suitable respirator.
	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 foot wear that cannot be cleaned.
	Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

9.1 Information on Basic 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	1.11 AIR=1
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(CH ₄ O)

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.



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Incompatible Materials: Oxidizing agents. Strong oxidizing agents. Acids.

Hazardous Decomposition Products: Thermal decomposition may release oxides of carbon. Formaldehyde. Toxic gas

11. Toxicological Information

11.1 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.

11.2 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

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

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 ExposureProduct: 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 PimephalesPromelias), 96h:>100 mg/l

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

Chronic hazards to the aquatic environment:



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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

ECLIPSE®

DOT :	Not regulated. If packaged according to DOT and/or carrier's requirements for ground/surface transport for LIMITED QUANTITY.
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 LIMITED QUANTITY. Consult carrier regulations for packaging requirements and suitability of mailing of LTD QTTY materials.

e-WIPE®

Domestic US:	Not considered hazardous as per letter from USDOT.
International:	Same as Eclipse. See above.

15. Regulatory Information

15.1 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.

15.2 CERCLA Hazardous Substance List (40CFR302.4)

Chemical Identity	METHYL ALCOHOL
Reportable quantity	5000lbs.

15.3 Superfund Amendments and Reauthorization Act of 1986 (SARA)



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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

Chemical Identity
Reportable quantity

METHYL ALCOHOL
5000lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity
Threshold planning quantity

METHYL ALCOHOL
10000lbs.

SARA 313 (TRI Reporting)

Chemical Identity
Reporting threshold for other users
Reporting threshold for manufacturing and processing

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.

15.4 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 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

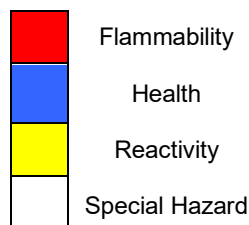
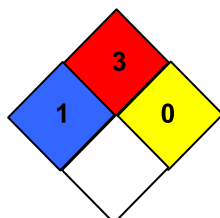
US. Rhode Island RTK

Chemical Identity

METHYL ALCOHOL ; METHANOL

16. Other Information, Including Date of Preparation or the Last Revision

NFPA Hazard ID:





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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

Disclaimer:

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****End of Safety Data Sheet****