SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

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Section 1 - Product & Company Identification

Product identifier

Product name: OPTI-CLEAR
Product form: Liquid
Other means of identification: SS0110

Relevant identified uses of the substance or mixture: Cleaner

Details of the supplier of the safety data sheet

Eaton Chemical, Inc.
4124 NW Riverside Street Riverside, MO 64150
Phone: (816) 741-7985 Fax: (816) 741-0405
Email: custserv@eatonchemical.com

Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Section 2 – Hazards Identification

Classification

Flammable liquid (Category 2)
Serious eye damage/irritation (Category 2A)
Skin corrosion/irritation (Category 2)
Acute toxicity-Oral (Category 5)
Specific target organ toxicity, single exposure (Category 3)
Specific target organ toxicity, Repeat exposure (Category 1)
Pictogram



Signal Word

DANGER!

Hazard Statements

Highly flammable liquid and vapor.
Causes serious eye irritation
May be harmful if swallowed.
May cause respiratory irritation, drowsiness or dizziness.
Causes damage to organs: eyes, skin, respiratory system, central nervous system, gastrointestinal tract

Precautionary Statements – Prevention

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.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Use in well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection.
Do not eat, drink or smoke when using this product
Avoid breathing mist/vapors/spray.

Precautionary Statements – Response

In case of fire: Consider carbon dioxide, dry chemical, dry sand or alcohol resistant foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs
IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If irritation occurs get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements – Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal

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

Section 3 –Composition/Information on ingredients

Mixture

Name	CAS NO.	%
Ethyl Alcohol (Denatured)	64-17-5	70-80
Methanol	67-56-1	1-5
Isopropyl Alcohol	67-63-0	1-5
Ethyl acetate	141-78-6	10-20

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section 4 – First Aid Measures

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.
Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician. Immediate medical attention required.
Skin Contact: Remove contaminated clothing, wash with plenty of water. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

May cause serious eye irritation.
May cause drowsiness or dizziness.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: Treat symptomatically. Symptoms may be delayed.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media

Alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media:
High volume water jet.
Specific Hazards Arising from the Chemical
Carbon oxides
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved and full protective gear.

Section 6 –Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so. Contain spillage.
Methods for Cleaning Up: Collect with an electrically protected vacuum or by wet-brushing and place in container for disposal. Keep in suitable, closed containers for disposal.

Section 7 – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities
Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8 – Exposure Controls/ Personal Protection

Exposure Guidelines:

Chemical Name	CAS #	ACGIH TLV	OSHA PEL	NIOSH TWA
Ethyl Alcohol (Denatured)	64-17-5	100 ppm	1000 ppm 1,900 mg/m^3	1000 ppm 1,900 mg/m^3
Methanol	67-56-1	200 ppm;160 mg/m3 TWA 250 ppm;327 mg/m3 STEL Skin designation	200 ppm 250 mg/m^3	200 ppm;260 mg/m3 TWA 250 ppm;325 mg/m3 STEL; Skin designation
Isopropyl Alcohol	67-63-0	200 ppm	400 ppm 980 mg/m^3	400 ppm 980 mg/m^3
Ethyl acetate	141-78-6	400 ppm	400 ppm 1,400 mg/m^3	No data available

Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Respiratory Protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eye Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Skin Protection: Prevent contact with shoes and clothing; use rubber apron and overshoes.
Other Protective Equipment: Eye wash stations and emergency showers should be available. The type and degree of personal protective equipment appropriate will depend on the specific work operation. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

Section 9 – Physical & Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Clear

Property	**Values**
pH	No data available
Melting Point/Freezing Point	No data available
Boiling Point/Boiling Range	63.9-117.2 º C (147-243 º F)
Flash Point	-1.7 º C (29 º F) TCC
Evaporation Rate	No data available

Flammability (Solid, Gas)	n/a-liquid
Upper Flammable Limits	36.5 % (V)
Lower Flammable Limits	2% (V)
Vapor Pressure	48.4 mmHg
Vapor Density	1.9
Specific Gravity	0.83
Water Solubility	Appreciable
Solubility in Other Solvents	No data available
Partition Coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive Properties	Not an Explosive
Oxidizing Properties	No data available
Odor	Ketone odor
Odor Threshold	No data available

Section 10 – Stability & Reactivity

Reactivity Not reactive under normal conditions.
Chemical Stability Stable under recommended storage conditions.
Possibility of Hazardous Reactions None Known
Conditions to Avoid Heat, sparks, flames, extremes of temperature and direct sunlight.
Incompatible Materials Oxidizing agents, bases, reducing agents, acids, alkalis.
Hazardous Decomposition Products Carbon dioxide, carbon monoxide, oxides of nitrogen.

Section 11 - Toxicological information

Information on Likely Routes of Exposure

Product Information

Inhalation: Avoid breathing vapors or mists.
Eye Contact: Causes eye irritation
Skin Contact: Avoid contact with skin.

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Alcohol (Denatured)	64-17-5	No data available	No data available	No data available
Methanol	67-56-1	5,628 mg/kg (Rat)	15,800 mg/kg (Rabbit)	64,000 ppm
Isopropyl Alcohol	67-63-0	5,045 mg/kg	12,800 mg/kg (Rabbit)	16,000 ppm (Rat) 8 h
Ethyl acetate	141-78-6	5,600 mg/kg (Rat)	>20,000 mg/kg (Rabbit)	>6,000 mg/kg (Rat) 6 h

Chemical Name	Ethyl Alcohol (Denatured)	Methanol
Skin corrosion/irritation	No data available	No data available
Serious eye damage/irritation	No data available	Causes eye irritation
Respiratory or skin sensitization	No data available	No data available
Mutagenicity	No data available	No data available
Carcinogenicity	No components are listed by IARC, ACGIH, OSHA, NPT	No components are listed by IARC, ACGIH, OSHA, NPT
Reproductive toxicity	No data available	No data available
Specific target organ toxicity-Single exposure	No data available	May cause drowsiness or dizziness
Specific target organ toxicity-repeated exposure	No data available	May cause defatting of skin and dermatitis
Aspiration hazard	No data available	No data available

Chemical Name	Isopropyl Alcohol	Ethyl acetate
Skin corrosion/irritation	Mild skin irritation	No irritation (Rabbit) 24 h
Serious eye damage/irritation	Eye irritation – 24 h	Slight irritation (Rabbit)
Respiratory or skin sensitization	No data available	Not a skin sensitizer
Mutagenicity	No data available	No data available
Carcinogenicity	No components are listed by IARC, ACGIH, OSHA, NPT	No data available
Reproductive toxicity	No data available	No data available
Specific target organ toxicity-Single exposure	May cause drowsiness or dizziness	No data available
Specific target organ toxicity-repeated exposure	No data available	No data available
Aspiration hazard	No data available	No data available

Section 12 - Ecological information

There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/aquatic plants	Fish	Aquatic invertebrates	Crustacea
Ethyl Alcohol (Denatured)	64-17-5	No data available	No data available	No data available	No data available
Methanol	67-56-1	No data available	LC5O Pimephales promelas(fathead minnow) 29,400 mg/L 96 h	EC5O (Daphnia magna (Water flea)): 23,500 mg/l- 24 h	No data available
Isopropyl Alcohol	67-63-0	EC5O – Desmodesmus subspicatus (green algae)-> 2,000 mg/l -72 h EC50-Algae > 1,000 mg/l -24 h	LC5O Pimephales promelas(fathead minnow) 9,640 mg/L 96 h	EC5O (Daphnia magna (Water flea)): 5,102 mg/L- 24 h	No data available
Ethyl acetate	141-78-6	No data available	LC50(golden orfe, 48 h): 270 mg/l, 333 mg/l	LC50(daphnid, 24 h): 2,500 mg/l. EC50 daphnid, 24 h): 3,090 mg/l	No data available

Persistence and Degradability No data available
Bioaccumulation No data available
Mobility No data available

Section 13 - Disposal considerations

WASTE DISPOSAL METHOD

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

Section 14 - Transport information

DOT Proper Shipping Description:

UN1993, Flammable liquid, N.O.S. (Ethyl alcohol, Methanol), 3, PGII

Section 15 - Regulatory information

SARA Title III Section 311/312 (40CFR370): Acute health, chronic health and fire hazard

SARA Title III Section 313 (40CFR372): This product contains a toxic chemical subject to the reporting requirements of section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372

Chemical	CAS #	Weight %	SARA 313 Threshold Values %
Methanol	67-56-1	1-<5	1.0

RCRA Status(40CFR261.33): Not listed

TSCA Inventory Status: Included

OSHA/NTP/IARC Carcinogen Status: Not listed

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:

⚠ **WARNING:** This product can expose you to chemicals including Methanol which is known to the State of California to cause reproductive harm. For more information go to, www.P65Warnings.ca.gov

Section 16 - Other information

HMIS ratings: Health: 2
Flammability: 3
Reactivity: 0

Indication of changes: Revision – 3 Revised section 15

Date Sheet Prepared: 08/13/2019

Other information: Author – EHS Administrator

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The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty's, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS