

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: Chroma/Screen Wash MTD
MSDS Date: 06 May 2015

IKONICS Corporation
4832 Grand Ave.
Duluth, MN 55807
United States
www.ikonics.com
sds@ikonics.com

General Information: (218) 628-2217
(800) 328-4261 – Toll Free
CHEMTREC: 800-424-9300 – Within USA and Canada
+1 703-527-3887 – Outside USA and Canada (collect calls accepted)

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

GHS Classification:
Flammable liquids (Category 4)
Serious eye damage (Category 1)

GHS Labeling



Symbol:

Signal Word: Danger

Hazard Statements:
Combustible liquid
Causes serious eye damage.

Precautionary Statements:

Prevention:

Keep away from flames and hot surfaces-no smoking.
Wear protective gloves/eye protection/face protection
Wear eye protection/face protection.

Response:

In case of fire: Use dry chemical, alcohol foam or carbon dioxide to extinguish.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a poison center/doctor.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Potential Health Effects: See Section 11 for more information

This product does not contain carcinogens or potential carcinogens as listed by NTP and IARC.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Dipropylene Glycol Monomethyl Ether CAS# 34590-94-8	1-20	100 ppm	Not avail	100 ppm	150 ppm
2	Dimethyl Glutarate CAS# 1119-40-0	1-100	Not avail	Not avail	Not avail	Not avail
3	Dimethyl Succinate CAS# 106-65-0	1-100	Not avail	Not avail	Not avail	Not avail
4	Dimethyl Adipate CAS# 627-93-0	1-100	Not avail	Not avail	Not avail	Not avail
5	Octylphenol Ethoxylate CAS# 9036-19-5	1-20	Not avail	Not avail	Not avail	Not avail

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do NOT induce vomiting. Contact local poison control center or physician immediately. Get medical attention immediately.
- Skin:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
- Eyes:** If contact with eyes, check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Section 5: FIRE FIGHTING MEASURES

Flash Point (Dipropylene Glycol Monomethyl Ether)	74°C (165°F)
Auto-ignition Temperature	Not available
Lower Explosion Limit:	Not available
Upper Explosion Limit:	Not available

Suitable Extinguishing Media:

Dry chemical, alcohol foam or carbon dioxide. Do not use a solid stream of water, since the stream will scatter and spread the fire. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.

Products of Combustion:

Upon decomposition this product may emit carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

Fire Fighting Equipment/Instructions:

Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

HAZARD	HMIS	NFPA
Toxicity	1	1
Fire	2	2
Reactivity	0	0

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Protection:

For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Environmental Precautions:

Prevent discharge to open bodies of water, municipal sewers, and watercourses.

Method for Containment:

Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-up:

Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

Section 7: HANDLING AND STORAGE

Handling:

Precautionary Measures: Avoid contact with eyes. Avoid breathing vapor. Use with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Special Handling Statements: Provide good ventilation of working area (local exhaust ventilation if necessary). During processing and handling of the product, comply with the indicative occupational exposure limit values.

Storage:

Store in a cool, dry, well ventilated place and keep container tightly closed. Observe the general rules of industrial fire protection.

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protective Equipment (PPE)

Respiratory Protection: Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Eye/Face Protection: Splash goggles.

Hand Protection: Chemical gloves

Body: Protective coverings

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

See section 3 for exposure limits.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State: Clear Liquid

Color: Not available

Odor: Sweet

pH: Not available

Vapor Density: Not available

Boiling Point (Dimethyl Ester): 195-216°C (383-421°F)

Vapor Pressure (Dimethyl Ester): 0.08hPa @ 20°C

Freezing point: Not available

Flash Point (See Section 5)
Flammability Properties (See section 5)
Solubility (in water): Not available
Relative Density (Dimethyl Ester): 1.06 g/cm³
Evaporation Rate: Not available
Octanol/Water partition coefficient (Kow) Not Available
Auto-ignition temperature: Not Available
Decomposition temperature: Not Available

Section 10: STABILITY AND REACTIVITY

Stability: This material is considered stable at ambient temperatures 70°C (21°C).

Condition to Avoid: Flames, sparks, electrostatic discharge, heat and other ignition sources, moisture.

Incompatible Materials: Metals, oxidizing materials

Hazardous Decomposition: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Reactions: This product will not undergo polymerization.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Analysis LD50

Dimethyl Succinate (106-65-0)

Oral LD50 Rat: >5g/kg

Dermal LD50 Rat: 1920 mg/kg

Slightly toxic following oral administration. Practically nontoxic after skin application in animal studies.

Moderately irritating to eyes (rabbit). Practically non irritating to skin (rabbit).

Dimethyl Adipate (627-93-0)

Oral LD50 Rat: 1920 mg/kg

Practically nontoxic following oral administration. Practically nontoxic after skin application in animal studies.

Practically non irritating to skin (rabbit). Moderately irritating to eyes (rabbit).

Dimethyl Glutarate (1119-40-0)

Inhalation LC50 Rat: 6.1 mg/L/4H

Oral LD50 Rat: 8191 mg/kg

Dipropylene Glycol Monomethyl Ether (34590-94-8)

Inhalation LC50 Rat 552PPM

Oral LD50 Rat >5,000 MG/KG BWT

Skin LD50 Rabbit 9,510 MG/KG

Octylphenol Ethoxylate

LD50 Oral - rat - 4,190 mg/kg

Serious eye damage/eye irritation

Eyes - rabbit

Result: Risk of serious damage to eyes.

CHRONIC EFFECTS:

Dimethyl Succinate (106-65-0) Dimethyl Adipate (627-93-0) Dimethyl Glutarate (1119-40-0)

Carcinogenicity: Not Available

Neurotoxicity: Not available

Mutagenicity: no genetic effects were observed in standard tests using bacterial cells and whole animals.

Reproductive: Minor changes in male fertility parameters, i.e. hormone measurements, sperm number or reproductive organ weights, observed in the absence of a change in reproductive performance.

Developmental: rate inhalation no effects on offspring observed in laboratory animals in the presence of maternal toxicity.

Target Organs: Causes eye irritation. May cause skin irritation. May cause respiratory tract irritation. May cause blurred vision. Mild skin and moderate eye irritation during primary irritation studies in rabbits.

Dipropylene Glycol Monomethyl Ether (34590-94-8)

Carcinogenic Effects No Data Available. Information collected on a structurally similar chemical suggest that this glycol ether is not carcinogenic. This substance is not classified for carcinogenicity by IARC, OSHA, NTP, or the EPA.

Mutagenic Effects: Not available

Teratogenic Effects: Not Available

Developmental Toxicity: This substance did not cause maternal toxicity, fetal toxicity, or developmental abnormalities in rats or rabbits during inhalation exposures up to the highest attainable concentration of 300 ppm (1848 mg/m³).

Reproductive Effects: No reproductive studies are available. However, no effects were seen on the testes and ovaries of rats and rabbits in a 90-day repeat dose inhalation toxicity study with exposures up to 200ppm.

Target Organs: Prolonged or high exposures may cause CNS effects and liver and kidney damage.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Dimethyl Glutarate, Dimethyl Succinate, and Dimethyl Adipate

EC50/48-hour/Daphnia=17 mg/l

EC50/72-hour/Algae=46.9 mg/l

LC50/96-hour/bluegill sunfish = 7.5 mg/l

Ecotoxicity: Dipropylene Glycol Monomethyl Ether (34590-94-8)

LC50/96 Hours fathead minnow > 10,000 mg/l (nominal)

LC50/48 Hours Daphnia magna 1,919 mg/l (nominal)

LC50/96 Hours Brine shrimp > 1,000 mg/l (nominal)

NOEC (plant growth or foliar damage) for direct, single spray application to higher plants >= 250 g/l.

Ecotoxicity: Octylphenol Ethoxylate

LC50 - Danio rerio (zebra fish) - 0.0005 mg/l - 96 h

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

Proper Shipping Name: Combustible Liquid, n.o.s.

Hazard Class: Comb Liq.

Identification No.: NA1993

Packing Group: III

Label: Combustible (Bulk)

Section 15: REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: No components were identified.

SARA 311/312 Hazard The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: fire hazard, immediate (acute) health hazard, delayed (chronic) health hazard.

SARA 313 Supplier Notification

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372 -Table 372.65). No components were identified.

California Prop 65: No components were identified.

Section 16: OTHER SUPPLEMENTAL INFORMATION

Last Revision Date: 28 March 2006

Preparation Date: 06 May 2015

Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext. 142

Disclaimer:

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.
