

MATERIAL SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: MetriCide™ OPA Plus

Product Use: High Level Disinfectant

Manufacturer: METREX® RESEARCH
1717 W. Collins Ave.
Orange, CA 92867
U.S.A.

Information Phone Number: 1-800-841-1428 (Customer Service)

Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date Of Preparation/Revision: 02/12/19

Section 2. Hazards Identification

GHS / HAZCOM 2012 Classification:

Skin Irritation Category 2

Eye Irritation Category 2

Skin Sensitization Category 1A

Warning!



Hazard Phrases

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Prevention:

Avoid breathing mist, vapors or spray.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves and eye protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical attention.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy



to do. Continue rinsing.
If eye irritation persists: Get medical attention.

Disposal:
Dispose of contents and container in accordance with local and national regulations.

Other hazards: None

Section 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Water and non-hazardous ingredients	Mixture	90-100%
Ortho- Phthalaldehyde	643-79-8	<1

Section 4. First Aid Measures

Eye Contact: In cases of contact, flush eye with waster for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Seek medical attention if irritation occurs and persists.

Skin Contact: In cases of skin contact, flush skin with water for several minutes. Seek medical attention if irritation or rash occurs. Remove and launder contaminated clothing.

Inhalation: Move to fresh air. If breathing is difficult, oxygen may be given by qualified personnel. If symptoms persist, seek medical attention. If asthma-like symptoms occur, get immediate medical attention.

Ingestion: If the victim is alert, have them rinse their mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Do not attempt to give anything by mouth to an unconscious person. Seek immediate medical advice by calling a Poison Center or doctor.

Most important symptoms and effects, acute and delayed: Causes eye and skin irritation. May cause allergic skin reaction (sensitization.) Inhalation of vapors may cause irritation of the mucous membranes and upper respiratory tract. Inhalation of mists may cause an allergic reaction in sensitized individuals. Do not form sprays, mists or aerosols of this product.

Indication of immediate medical attention and special treatment, if needed: Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any extinguishing media that is appropriate for the surrounding fire. Cool fire exposed containers with water.

Specific Hazards Arising from the Chemical: None known.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.



Section 6: Accidental Release Measures

Personal precautions, Protective equipment, and Emergency procedures: Wear appropriate protective clothing and equipment.

Methods and Materials for Containment and Cleaning up: Collect material with an inert absorbent material and place in appropriate, labeled container for disposal.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Do not form sprays, mists or aerosols of this product. Wear appropriate eye and skin protection when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Conditions for Safe Storage, Including any Incompatibilities: Store at room temperature.

Section 8. Exposure Controls / Personal Protection

Exposure Limits

Chemical	Exposure Limit
Ortho- Phthalaldehyde	None Established

Appropriate Engineering Controls: General ventilation should be adequate for normal use. For operations where the exposures are excessive, mechanical ventilation such as local exhaust may be needed to minimize exposure.

Respiratory Protection: For operations where the occupational exposures are excessive, a NIOSH approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Hand protection: Impervious gloves such as butyl rubber or nitrile are recommended.

Eye Protection: Safety goggles are recommended if needed to prevent eye contact.

Skin Protection: Wear protective clothing if needed to avoid prolonged/ repeated skin contact.

Hygiene measures: Suitable eye wash and washing facilities should be available in the work area.

Section 9. Physical and Chemical Properties

Appearance:	Clear bluish green liquid.	Odor:	Slight
Odor Threshold:	Not available	pH:	7.0-7.8
Melting/Freezing Point:	0°C (32° F)	Boiling Point/Range:	100°C (212°F)
Flash Point:	Not flammable	Evaporation Rate:	Same as water



Flammability: (Solid, Gas)	Not applicable	Flammability Limits:	N/A
Vapor Pressure:	Same as water	Vapor Density:	Same as water
Relative Density:	>1	Solubilities:	Soluble (in water)
Partition Coefficient: (N-Octanol/Water)	Not available	Autoignition Temperature:	Not flammable
Decomposition Temperature:	Not available	Viscosity:	Not available

Section 10. Stability and Reactivity

Reactivity: None known.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known.

Conditions to avoid: Avoid high temperatures and direct sunlight.

Incompatible Materials: Strong oxidizing agents, acids and alkalis.

Hazardous decomposition products: None known.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: Inhalation of vapors or mists may be irritating to the respiratory tract and eyes, and may cause stinging in the nose and throat, discharge, coughing, chest discomfort and tightness, difficulty in breathing or headache. Ortho- Phthalaldehyde belongs to a family of aldehydes that have a potential to cause respiratory sensitization. Symptoms include wheezing, shortness of breath, tightness of the chest and throat, dry mouth and tingling of the mouth and lips.

Skin Contact: Causes skin irritation with redness and pain. Prolonged contact may cause drying and cracking of the skin. Direct contact with skin may cause staining. Repeated contact with skin may cause skin sensitization. In a study with laboratory this product was shown to cause moderate skin irritation. This product has been shown to cause allergic skin reaction in human clinical trials.

Eye Contact: Direct contact with eyes may cause irritation.

Ingestion: Ingestion may cause gastrointestinal irritation nausea, vomiting and diarrhea. May discolor the tissues of the mouth, throat and stomach.

Chronic Hazards: None currently known.

Medical Conditions Aggravated By Exposure: None currently known.

Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

Acute Toxicity Values:

Product: Oral rat LD50 5000 mg/kg; Dermal rabbit >2000 mg/kg



Section 12. Ecological Information

Toxicity:

Ortho- Phthalaldehyde: LC50 Pimephales promelas: 0.18 mg/L/96 hr; EC50 Daphnia Magna: 0.11 mg/L/48 hr; EC50 Selenastrum capricomutum: 0.11-0.21 mg/L/72 hr

Persistence and degradability: Ortho- Phthalaldehyde is poorly biodegradable.

Bioaccumulative Potential: No data available for product.

Mobility in Soil: No data available for product.

Other Adverse Effects: None known

Section 13. Disposal Considerations

Solution Disposal: Discharge residual and unused solutions in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in accordance with hospital policy.

Section 14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated	None	None	None
EU ADR/RID	None	Not Regulated	None	None	None
IMDG	None	Not Regulated	None	None	None
IATA/ICAO	None	Not Regulated	None	None	None

Section 15. Regulatory Information

U.S. Federal Regulations:

EPA SARA 311/312 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Protection Of Stratospheric Ozone: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.



International Inventories

US EPA TSCA Inventory: All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

Australia: All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

China: All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

Japan: All of the components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) inventory or exempt.

New Zealand: All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

Philippines: All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or exempt.

Taiwan: All of the components of this product are listed on the National Existing Chemical Inventory (NECI) in Taiwan or exempt.

Section 16. Other Information

Effective Date: February 12, 2019

Supersedes Date: August 14, 2013

Revision Summary: Updated Section 15.

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