

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: MetriCide® Powder Activator
Product Use: Liquid Sterilant/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: August 24, 2021

Section 2. Hazards Identification

US OSHA HAZCOM 2012 / Canadian WHMIS 2015 Classification:

Germ Cell Mutagenicity Category 2
Toxic to Reproduction Category 2

Label Elements

Warning!



Hazard Phrases

Suspected of causing genetic defects.
Suspected of damaging fertility or the unborn child.

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves.

Response:

IF exposed or concerned: Get medical attention.

Storage and Disposal

Store locked up.
Dispose of contents and container in accordance with local and national regulations.

Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Non-hazardous ingredients	Mixture	45-70%
Reducing Agent	Proprietary	30-60%
Inorganic phosphate	Proprietary	5-10%

Section 4. First Aid Measures

Eye Contact: Hold eye open and rinse slowly and gently with water for several minutes. If irritation develops or persists, seek medical advice.

Skin Contact: Wash with soap and water. If skin irritation develops and persists, seek medical attention.

Inhalation: Move to fresh air. If irritation or other effects occur and seek medical attention.

Ingestion: If swallowed, rinse mouth with water. Do not induce vomiting. Do not attempt to give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects, acute and delayed: May be irritating to eyes, skin and respiratory tract.

Indication of immediate medical attention and special treatment, if needed: Immediate medical attention is not required.

Section 5. Fire Fighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any media that is suitable for the surrounding fire.

Specific Hazards Arising from the Chemical: Combustion may produce carbon, sulfur and phosphorus oxides and formaldehyde.

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. Cool fire exposed container with water.

Section 6: Accidental Release Measures

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

Environmental hazards: Avoid release to the environment. Report spill as required by local and federal regulations.

Methods and Materials for Containment and Cleaning up: Collect spilled powder by scooping, vacuuming or sweeping. Do not create airborne dust. Place in a container for use or disposal. Use caution as surfaces may be slippery.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid generating and breathing airborne dust. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling. Use in accordance with label directions.

Conditions for Safe Storage, Including any Incompatibilities: Store at room temperature. Avoid prolonged exposure to heat and/or humidity as this reduces product effectiveness. Keep container closed when not in use.

Section 8. Exposure Controls / Personal Protection

Exposure Limits

Chemical	Exposure Limit
Reducing Agent	5 mg/m ³ (respirable dust), 15 mg/m ³ (total dust) TWA OSHA PEL (as PNOC)
Inorganic phosphate	5 mg/m ³ (respirable dust), 15 mg/m ³ (total dust) TWA OSHA PEL (as PNOC)

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

Respiratory Protection: None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with particulate filter 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: Protective gloves such as nitrile are recommended.

Eye Protection: Safety goggles recommended.

Skin Protection: Wear protective clothing as needed to avoid skin contact.

Hygiene measures: None required for normal use.

Section 9. Physical and Chemical Properties

Appearance:	White/yellow powder with a slight green tint.	Odor:	No odor.
Odor Threshold:	Not available	pH:	8.5-9.3 (1% solution)
Melting/Freezing Point:	Not available	Boiling Point/Range:	Not applicable
Flash Point:	Not flammable	Evaporation Rate:	Not applicable
Flammability: (Solid, Gas)	Not flammable	Flammability Limits:	Not applicable
Vapor Pressure:	Not applicable	Vapor Density:	Not available
Relative Density:	Not available	Solubilities:	Soluble in Water
Partition Coefficient:	Not available	Autoignition	Not flammable

**(N-Octanol/Water)
Decomposition
Temperature:**

Not available

**Temperature:
Viscosity:**

Not available

Section 10. Stability and Reactivity

Reactivity: None known.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Contact with acids may produce sulfur dioxide and formaldehyde.

Conditions to avoid: None known.

Incompatible Materials: Strong oxidizing agents and strong acids.

Hazardous decomposition products: Thermal decomposition will produce carbon, sulfur and phosphorus oxides and formaldehyde.

Section 11. Toxicological Information

Potential Health Effects:

Inhalation: May cause irritation of the nose, throat and upper respiratory tract.

Skin Contact: May cause skin irritation.

Eye Contact: May cause irritation with redness and tearing.

Ingestion: Do not ingest. If swallowed, may irritate mouth, throat and intestinal tract.

Chronic Hazards: Reducing agent was negative in the AMES test but was positive in an invitro mammalian cell gene mutation assay and in an in vivo mammalian erythrocyte micronucleus test.

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

Reproductive Toxicity: Reducing agent was shown to cause developmental effects in a developmental screening study with rats.

Acute Toxicity Values:

Reducing Agent: Oral rat LD50 >5000 mg/kg

Inorganic Phosphate: Oral rat LD50 4150 mg/kg; LD50 Dermal Rat >7940 mg/kg

Section 12. Ecological Information

This product is not classified as harmful to the environment.

Toxicity: No toxicity data available for product.

Inorganic Phosphate: 96 hr LC50 *Oncorhynchus mykiss* >100 mg/L; 48 hr EC50 *daphnia magna* >100 mg/L

Reducing Agent: 96 hr LC50 *Leuciscus idus* >10,000 mg/L; 48 hr EC50 *daphnia magna* >100 mg/L; 72 hr ErC50 *Desmodesmus subspicatus* 370 mg/L

Persistence and degradability: No data available. Biodegradation does not apply to inorganic substances such as inorganic phosphates. Reducing agent is readily biodegradable.

Bioaccumulative Potential: The calculated BCF for the reducing agents is 3.16.

Mobility in Soil: No data available.

Other Adverse Effects: None known

Section 13. Disposal Considerations

Solution Disposal: Refer to product label for disposal information. Dispose in accordance with national, state/provincial 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
EU ADR/RID	None	Not Regulated			None
IMDG	None	Not Regulated			None
IATA/ICAO	None	Not Regulated			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 has an RQ of 50,000 lbs based on the RQ of the inorganic phosphate of 5000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Canadian Regulations

National Pollutant Release Inventory (NPRI): This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI: None

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.

Section 16. Other Information

NFPA Rating: Fire: 1 Health: 2 Instability: 0

Effective Date: August 24, 2021

Supersedes Date: March 5, 2018

Revision Summary: N/A

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