



MATERIAL SAFETY DATA SHEET

1. Product And Company Identification

Product Name: MetriCide Powder Activator
Manufacturer: METREX® RESEARCH
28210 Wick Road
Romulus, MI 48174
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)

MSDS Date of Preparation/Revision: 11/1/2012
Product Use: Liquid Sterilant/High Level Disinfectant Activator

2. Hazards Identification

White/yellow powder with slight green tint.

EMERGENCY OVERVIEW

May be irritating to eyes, skin and respiratory tract.

3. Composition/Information on Ingredients

Component	CAS No.	Amount
Inorganic phosphate	Proprietary	1-10%
Non-Hazardous Ingredients	Proprietary	90-99%

4. First Aid Measures

Inhalation: Move to fresh air if effects occur and seek medical attention if effects persist.

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

Eye Contact: Hold eye open and rinse slowly and gently with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If irritation persists, seek medical advice.

Ingestion: If swallowed, seek medical advice by calling a Poison Control Center or hospital emergency room. Do not induce vomiting. Do not attempt to give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Extinguishing Media: Use any media that is suitable for the surrounding fire.



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

Unusual Fire Hazards: None known.

Hazardous Combustion Products: Burning may produce carbon monoxide and carbon dioxide and oxides of sulfur and phosphorus.

6: Accidental Release Measures

Wear appropriate protective clothing and equipment (See Section 8). 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. Refer to Section 13 for disposal advice.

7. Handling and Storage

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.

Store at room temperature. Avoid prolonged exposure to heat and/or humidity as this reduces product effectiveness. Keep containers closed.

8. Exposure Controls / Personal Protection

Exposure Limits

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

Ventilation: 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.

Gloves: Protective gloves such as rubber or nitrile are recommended.

Eye Protection: Safety goggles recommended.

Other Protective Equipment/Clothing: None required for normal use. Wear protective clothing if needed to avoid skin contact.

9. Physical and Chemical Properties



Appearance and Odor: White/yellow powder with slight green tint.

Boiling Point:	Not Applicable	Specific Gravity:	Not Determined
Solubility in Water:	Soluble	pH:	8.5-9.3 (1% solution)
Vapor Pressure:	Not Applicable	Vapor Density:	Not Applicable
Percent Volatile:	0%	Melting/Freezing Point:	Not Determined
Coefficient of Water/Oil Distribution:	Not Determined		
Flash Point:	Not Applicable	Flammable Limits:	Not Determined

10. Stability and Reactivity

Stability: Stable

Conditions To Avoid: None known.

Incompatibility: Strong oxidizing agents and strong acids.

Hazardous Decomposition Products: Thermal decomposition will produce carbon monoxide and carbon dioxide and sulfur and phosphorus oxides.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Potential Health Effects:

Acute Hazards:

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

Skin Contact: May cause skin irritation.

Eye Contact: May cause irritation. Eye damage is not expected.

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

Chronic Hazards: No adverse effects expected based on the available data.

Medical Conditions Aggravated By Exposure: None known.

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

Acute Toxicity Values:

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

12. Ecological Information

This product is not classified as harmful to the environment.

Toxicity:

Inorganic Phosphate: LC50 rainbow trout >100 mg/L/96 hr; EC50 daphnia magna >100 mg/L/48 hr

Non-Hazardous Ingredients: LC50 fish >100 mg/L/96 hr; EC50 daphnia magna ~50 mg/L/48 hr; IC50



algae >100 mg/L/72 hr.

Persistence and degradability: No data available. Biodegradation does not apply to inorganic substances such as inorganic phosphates.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. Disposal Considerations

Dispose in accordance with national, state/provincial and local regulations.

14. Transport Information

U.S. DOT Hazard Classification

Proper Shipping Name: Not Regulated

Technical Name: N/A

UN Number: N/A

Hazard Class/Packing Group: N/A

Labels Required: N/A

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

IMDG Code Shipping Classification

Proper Shipping Name: Not Regulated

UN Number: None

Hazard Class: None

Packing Group: None

Labels Required: None

Placards Required: None

Not classified as a marine pollutant

ICAO Air Transport Classification

Proper Shipping Name: Not Regulated

ID Number: None

Hazard Class: None

Packing Group: None

Labels Required: None

15. Regulatory Information

EPA SARA 311/312 Hazard Classification: Acute Health

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.

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

16. Other Information

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

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, METREX RESEARCH makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.