

# SAFETY DATA SHEET

Date Printed: 05/05/2024

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (5N) 99.999% Barium Metaphosphate

**Product Code:** BA-MPAT-05

**CAS Number:** 13762-83-9

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

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## SECTION 2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 4

Acute Inhalation Toxicity - Dusts and Mists Category 4

Label Elements

Signal Word

Warning

Hazard Statements

Harmful if swallowed or if inhaled

Precautionary Statements

Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth  
Disposal  
Dispose of contents/container to an approved waste disposal plant  
Hazards not otherwise classified (HNOC)  
None identified



Component  
Barium dimetaphosphate  
CAS-No  
13762-83-9  
Weight %  
≤100

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

General Advice If symptoms persist, call a physician.  
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.  
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.  
Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.  
Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. Most important symptoms and effects  
None reasonably foreseeable.  
Notes to Physician Treat symptomatically

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### SECTION 4. FIRST AID MEASURES

Unsuitable Extinguishing Media No information available  
Flash Point No information available  
Method - No information available  
Autoignition Temperature No information available  
Explosion Limits  
Upper No data available  
Lower No data available  
Sensitivity to Mechanical Impact No information available  
Sensitivity to Static Discharge No information available  
Specific Hazards Arising from the Chemical  
Keep product and empty container away from heat and sources of ignition.  
Hazardous Combustion Products  
None known.  
Protective Equipment and Precautions for Firefighters  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  
NFPA  
Health - 2

Flammability - 0  
Instability - 0  
Physical hazards -

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## SECTION 5. FIREFIGHTING MEASURES

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.  
Avoid dust formation.  
Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological Information.  
Methods for Containment and Clean Up  
Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.  
Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

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## SECTION 7. HANDLING AND STORAGE

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.  
Engineering Measures Ensure adequate ventilation, especially in confined areas  
Personal Protective Equipment  
Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.  
Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure  
Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.  
Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Physical State Solid  
Appearance White  
Odor Odorless  
Odor Threshold No information available  
pH No information available  
Melting Point/Range 1560 °C / 2840 °F  
Boiling Point/Range No information available  
Flash Point No information available  
Evaporation Rate Not applicable

Flammability (solid,gas) No information available  
Flammability or explosive limits  
Upper No data available  
Lower No data available  
Vapor Pressure No information available  
Vapor Density Not applicable  
Specific Gravity No information available  
Solubility No information available  
Partition coefficient; n-octanol/water No data available  
Autoignition Temperature No information available  
Decomposition Temperature No information available  
Viscosity Not applicable  
Molecular Formula Ba(PO<sub>3</sub>)<sub>2</sub>  
Molecular Weight 295.25

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Reactive Hazard None known, based on information available  
Stability Stable under normal conditions.  
Conditions to Avoid Incompatible products.  
Incompatible Materials Strong oxidizing agents  
Hazardous Decomposition Products None under normal use conditions  
Hazardous Polymerization Hazardous polymerization does not occur.  
Hazardous Reactions None under normal processing.

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## SECTION 10. STABILITY AND REACTIVITY

Acute Toxicity  
Product Information  
Component Information  
Toxicologically Synergistic  
Products - No information available  
Delayed and immediate effects as well as chronic effects from short and long-term exposure  
Irritation No information available  
Sensitization No information available  
Carcinogenicity The table below indicates whether each agency has listed any ingredient as acarcinogen  
Mutagenic Effects No information available  
Reproductive Effects No information available. Developmental Effects No information available.  
Teratogenicity No information available. STOT - single exposure None known  
STOT - repeated exposure None known  
Aspiration hazard No information available  
Symptoms / effects,both acute and delayed  
No information available  
Endocrine Disruptor Information No information available  
Other Adverse Effects The toxicological properties have not been fully investigated.

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## SECTION 11. TOXICOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

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## SECTION 12. ECOLOGICAL INFORMATION

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

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## SECTION 13. DISPOSAL CONSIDERATIONS

DOT

UN-No UN1564

Proper Shipping Name Barium compound, n.o.s. Technical Name (Barium metaphosphate)

Hazard Class 6.1

Packing Group III

TDG

UN-No UN1564

Proper Shipping Name Barium compound, n.o.s. Hazard Class 6.1

Packing Group III

IATA

UN-No UN1564

Proper Shipping Name Barium compound, n.o.s. Hazard Class 6.1

Packing Group III

IMDG/IMO

UN-No UN1564

Proper Shipping Name Barium compound, n.o.s. Hazard Class 6.1

Packing Group III

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## SECTION 14. TRANSPORT INFORMATION

TSCA 12(b) - Notices of Export Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland

#### Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

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## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.