

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Trade Name:** Barium Magnesium Tantalate

**Chemical Formula:**  $\text{Ba}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$

**Manufacturer Item Number:** BA-0440

**Manufacturer:** Lorad Chemical Corporation  
1200 19th Street North  
Saint Petersburg, Florida, 33713  
United States of America

**Telephone:** +1 (727) 826-5511

**Fax:** +1 (727) 826-5510

**Emergency Contact:** (800) 255-3924 (US & Canada)  
+1 (813) 248-0573 (International)

**2. HAZARD IDENTIFICATION**

**Signal Word:** Warning

**Pictograms:**



**Hazard Statements:** H302 Harmful if swallowed.  
H332 Harmful if inhaled.

**Precautionary Statements:** P261 Avoid breathing dust / fumes / gas / mist / vapors / spray.  
P264 Wash thoroughly after handling.  
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P301+312 IF SWALLOWED: Call a poison center or physician if you feel unwell.  
P501 Dispose of contents and container in accordance with local / regional / national / international regulations.

**HMIS Health Ratings (0-4)**

- Health: 2  
- Flammability: 0  
- Physical: 0

**3. COMPOSITION**

**Additional Names:** Barium Magnesium Tantalum Oxide

**Percentage:** 100 wt%

**CAS #:** 12231-81-1

**EC #:** No Data Available.

**4. FIRST AID PROCEDURES**

<b>General Treatment</b>	Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.
<b>Special Treatment:</b>	No Data Available.
<b>Important Symptoms:</b>	No Data Available.
<b>Inhalation:</b>	Remove from exposure, supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical attention.
<b>Ingestion:</b>	Seek medical attention.
<b>Skin:</b>	Immediately wash with soap and warm water and rinse thoroughly.
<b>Eyes:</b>	Irrigate thoroughly with water for at least ten minutes. Seek medical attention.

**5. FIREFIGHTING MEASURES**

<b>Flammability:</b>	Not flammable.
<b>Special Hazards from Substance:</b>	If this product is involved in a fire, may release barium oxide fumes.
<b>Extinguishing Media:</b>	Carbon dioxide, extinguishing powder or water spray. For larger fires, water spray or alcohol resistant foam.
<b>Special Fire Fighting Procedures:</b>	Wear self-contained breathing apparatus for firefighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

<b>If Material is Released / Spilled:</b>	Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Wear personal protective equipment and keep unprotected persons away. Sweep up or vacuum up spillage and collect in a suitable container for disposal. Dispose of waste in accordance with applicable federal, state, local, and provincial environmental regulations.
<b>Environmental Precautions:</b>	Prevent further leakage or spills if safe to do so. Do not allow to enter drain, sewers, or watercourses.

**7. HANDLING AND STORAGE**

<b>Handling Conditions:</b>	Provide appropriate exhaust ventilation at places where dust is formed.
<b>Storage Conditions:</b>	Keep in a dry cool place.
<b>Work / Hygienic Maintenance:</b>	Follow personal protection guidelines in Section 8.
<b>Ventilation:</b>	Keep container tightly closed in a dry and well-ventilated place.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<b>Permissible Exposure Limits:</b>	Tantalum – 5 mg/m <sup>3</sup> (OSHA) Barium, and soluble compounds – 0.5 mg/m <sup>3</sup> (OSHA)
<b>Threshold Limit Value:</b>	Tantalum – 5 mg/m <sup>3</sup> (ACGIH) Barium, and soluble compounds – 0.5 mg/m <sup>3</sup> (ACGIH)
<b>Special Equipment:</b>	No Data Available.
<b>Respiratory Protection:</b>	Wear respirator if there is a dust formation or high concentrations of material present. In case of inadequate ventilation or risk of inhalation of dust, use suitable respirator equipment. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Protective Gloves:</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>Eye Protection:</b>	Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
<b>Body Protection:</b>	Wear appropriate protective clothing.

**9. PHYSICAL AND CHEMICAL CHARACTERISTICS**

<b>Color:</b>	No Data Available.
<b>Forms:</b>	Powder.
<b>Odor:</b>	No Data Available.
<b>Water Solubility:</b>	No Data Available.
<b>Boiling Point:</b>	No Data Available.
<b>Melting Point:</b>	No Data Available.
<b>Flash Point:</b>	No Data Available.
<b>Autoignition Temperature:</b>	No Data Available.
<b>Density:</b>	No Data Available.
<b>Molecular Weight:</b>	No Data Available.

**10. REACTIVITY**

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Reacts with:</b>	No Data Available.
<b>Incompatible Conditions:</b>	No Data Available.
<b>Hazardous Decomposition Products:</b>	Barium oxide. Decomposition will not occur if used and stored according to specifications.

## 11. TOXICOLOGICAL INFORMATION

### Potential Health Effects:

- Eyes Irritating effect.
- Skin Irritant to skin and mucous membranes.
- Ingestion Harmful if swallowed.
- Inhalation Harmful if inhaled.
- Chronic Severe or chronic exposure to barium compounds may produce collapse and death due to respiratory failure.

### Signs and Symptoms:

Barium compounds may cause severe gastroenteritis, including abdominal pain, vomiting and diarrhea, tremors, faintness, paralysis of the arms and legs, and slow or irregular heartbeat. Inhalation of fumes may cause sore throat, coughing, labored breathing, and irritation of the respiratory tract.

Tantalum compounds may cause skin and eye irritation.

### Aggravate Medical Conditions:

No Data Available.

### Median Lethal Dose:

No Data Available.

### Carcinogen:

EPA-D – Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data is available.  
ACGIH A4 – Not classifiable as a human carcinogen: inadequate data on which to classify the agent in terms of carcinogenicity in humans and/or animals.

## 12. ECOLOGICAL INFORMATION

### Aquatic Toxicity:

No Data Available.

### Persistence and degradability:

No Data Available.

### Bioaccumulative potential:

No Data Available.

### Notes:

Do not allow material to be released into the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course, or sewage system. Avoid transfer into the environment.

## 13. DISPOSAL CONSIDERATIONS

### Disposal:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an appropriate waste handling site for recycling or disposal. Dispose of in accordance with local, state, or national regulations.

## 14. TRANSPORTATION DATA

### Hazardous:

Hazardous for Transportation

### Pictogram:



### Hazard Class:

6.1 Toxic substances

### Packing Group:

III

**UN Number:** UN1564

**Proper Shipping Name:** **DoT:** Barium compounds, n.o.s. (Barium Magnesium Tantalate)  
**IMDG:** BARIUM COMPOUND, N.O.S. (Barium Magnesium Tantalate)  
**IATA:** BARIUM COMPOUND, N.O.S. (Barium Magnesium Tantalate)

**15. REGULATORY INFORMATION**

**SARA 302 Components** No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** The following components are subject to the reporting levels established by SARA Title III, Section 313:

Barium Compounds (Barium Magnesium Tantalate)

**SARA 311/312 Hazards** Acute Health Hazard

**Massachusetts Right to Know Components** No components are subject to the Mass. Right to Know Act.

**Pennsylvania Right to Know Components** The follow compound is known to the State of Pennsylvania to be an enviornmental hazard:

Barium Compounds (Barium Magnesium Tantalate)

**New Jersey Right to Know Components** No components are subject to the New Jersey Worker and Community Right to Know Act.

**California Prop. 65 Components** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION**

Copyright 2017 Lorad Chemical Corporation. 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 does not constitute a hazard assessment and should not be used in place of the user's own assessment of work place risks as required by other health and safety legislation. The information in this sheet does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates make no warranty with respect to the accuracy of the information or the suitability of this product for any particular application, and shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision Date: 11/30/17