

Trade Name:

LTS Research Laboratories, Inc. Safety Data Sheet Barium Manganate

Barium Manganate

Product and Company Identification

Chemical Formula: BaMnO₄

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H272: May intensify fire; oxidizer

H302+H332: Harmful if swallowed or if inhaled

Precautionary Statements: P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials. P221 Take any precaution to avoid mixing with combustibles. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 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.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-

resistant foam for extinction.

P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 2

3. Composition	
Chemical Family:	Ceramic
Additional Names:	Barium Manganese Oxide
Barium Manganate (BaMnO ₄):	
Percentage:	100 wt%
CAS #:	7787-35-1
EC #:	232-109-6
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one to two glasses of water. Never induce vomiting or give
Skin:	anything by mouth to an unconscious person.
	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
 ,	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	May intensify fire: Oxidizer
Extinguishing Media:	No special restrictions - use suitable extinguishing agent for
Const. Eightige Bossel and	surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. Avoid breathing vapors, mist or gas.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Avoid formation
	of dust and aerosols. Further processing of solid materials may result
	in the formation of combustible dusts. The potential for combustible
	dust formation should be taken into consideration before additional
	processing occurs. Keep away from heat and sources of ignition.
	Material is moisture sensitive Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.2 mg/m³ as BaMnO₄, long-term value (California permissible

exposure limit)

Threshold Limit Value: 0.2 mg/m³ as BaMnO₄, long-term value

Special Equipment: None

Respiratory Protection: Dust Respirator

Protective Gloves: Nitrile Rubber gloves, minimum thickness of 0.11 mm

Eye Protection: Safety glasses or goggles. Conforms to EN166 or government

standards such as NIOSH (US) or EN 166(EU).

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Dark Grey

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor:
Water Solubility:
Boiling Point:
M/A
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A

Density: 4.85 g/cc (at 25 °C) Molecular weight: 256.26 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Reducing Agents, Oxidizing agents. May intensify fire if

exposed to heat source or flame.

Incompatible Conditions: Moisture

Hazardous Decomposition Products: Metal oxide fume, Barium Oxide, Manganese/Manganese Oxides.

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: Harmful if swallowed
Inhalation: Harmful if inhaled

Chronic: Chronic manganese poisoning primarily involves the central nervous

system. Early symptoms include languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases. High incidence of pneumonia has been found in workers exposed to the dust

or fume of some manganese compounds., To the best of our

knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated.

Signs & Symptoms: Men exposed to manganese dusts showed a decrease in fertility.

Aggravated Medical Conditions: N/A

Median Lethal Dose: ?? mg/kg for rat by mouth

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. Ecological Information

Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



5.1 Oxidizing Solid Hazard Class: II

Packing Group:

UN Number: UN 1479

Proper Shipping Name: Oxidizing solid, n.o.s. (Barium manganate)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 10/11/2018