LTS Research

LTS Research Laboratories, Inc. Safety Data Sheet Magnesium Boride

	1. Product and Company Identification
Trade Name:	Magnesium boride
Chemical Formula:	MgB_2
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:	Warning
Hazard Statements: Precautionary Statements:	H302: Harmful if swallowed P264: Wash thoroughly after handling P270: Do not eat, drink or smoke when using this product
	doctor/physician if you feel unwell
	doctor/physician if you feel unwell P330: Rinse mouth
HMIS Health Ratings (0-4):	doctor/physician if you feel unwell P330: Rinse mouth P501: Dispose of contents/container in accordance with
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Health: Flammability:	doctor/physician if you feel unwell P330: Rinse mouth P501: Dispose of contents/container in accordance with local/regional/national/international regulations
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Health: Flammability: Physical: Chemical Family:	doctor/physician if you feel unwell P330: Rinse mouth P501: Dispose of contents/container in accordance with local/regional/national/international regulations 2 0 1 3. Composition Ceramic
Health: Flammability: Physical:	doctor/physician if you feel unwell P330: Rinse mouth P501: Dispose of contents/container in accordance with local/regional/national/international regulations 2 0 1 3. Composition
Health: Flammability: Physical: Chemical Family: Additional Names: Magnesium diboride (MgB ₂):	doctor/physician if you feel unwell P330: Rinse mouth P501: Dispose of contents/container in accordance with local/regional/national/international regulations 2 0 1 3. Composition Ceramic Magnesium diboride
Health: Flammability: Physical: Chemical Family: Additional Names: Magnesium diboride (MgB ₂): Percentage:	doctor/physician if you feel unwell P330: Rinse mouth P501: Dispose of contents/container in accordance with local/regional/national/international regulations 2 0 1 3. Composition Ceramic Magnesium diboride 100 wt%
Health: Flammability: Physical: Chemical Family: Additional Names: Magnesium diboride (MgB ₂):	doctor/physician if you feel unwell P330: Rinse mouth P501: Dispose of contents/container in accordance with local/regional/national/international regulations 2 0 1 3. Composition Ceramic Magnesium diboride

	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:	Seek Medical Attention.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing.
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:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
	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 disposa
	Take care not to raise dust.
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. Store apart from
Storage Conditions.	materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
violik, Hygienie Wantenanee.	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:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a
	backup to engineering controls. Risk assessment should be performed
	to determine if purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
	standards.
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
	Protective work clothing. Wear close-toed shoes and long
Body Protection:	sleeves/pants.

Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature:	Dark grey Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A 800 °C N/A
Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point:	Powder, Granules, Pellets, Sputtering target, Custom parts Odorless Insoluble N/A 800 °C
Odor: Water Solubility: Boiling Point: Melting Point: Flash Point:	Odorless Insoluble N/A 800 °C
Boiling Point: Melting Point: Flash Point:	N/A 800 °C
Boiling Point: Melting Point: Flash Point:	N/A 800 °C
Melting Point: Flash Point:	800 °C
Flash Point:	
	N/A
	N/A
Density:	2.54 g/cc
Molecular weight:	45.93 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Boron oxide, Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
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Signs & Symptoms:	N/A Sonatorias Inc.
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	826 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state	national, and international regulations

Hazardous:	Not hazardous for transportation.	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
Proper Shipping Name:	N/A	

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	

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.

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07/13/2015

