SAFETY DATA SHEET

Section 1 Ch

Chemical Product and Company Identification

Boreal Science 399 Vansickle Road St. Catherines, Ontario L2S 3T4 Canada

Tel: (800) 387-9393

Page E1 of E2 CHEMTREC 24 Hour Emergency USA

Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product MAGNESIUM METAL, TURNINGS

Synonyms

PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660

5100 West Henrietta Rd

nyms Magnesium

Section 2 Hazards Identification

Signal word: DANGER Pictograms: GHS02 Target organs: None known Image: Solid (Category 1) Self heating substance (Category 2) Water reactivity (Category 2) GHS Label information: Hazard statement: H228: Flammable solid. H252: Self-heating in large quantities; may catch fire. H261: In contact with water releases flammable gas.	 Precautionary statement: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P223: Do not allow contact with water. P231+P232: Handle under inert gas. Protect from moisture. P235+P410: Keep cool. Protect from sunlight. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/vertilating/lighting equipment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P335+P334: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. P370+P378: In case of fire: Use graphite powder, soda ash, powdered sodium chloride, or an appropriate metal-fire-extinguishing dry powder to extinguish. P402+P404: Store in a dry place. Store in a closed container. P420: Store away from other materials. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.
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Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Combustible dust Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Magnesium		7439-95-4	99.8%	231-104-6	
0 11 1					
Section 4	First Aid Measures				

INGESTION: CAUSES BURNING SENSATION IN THE MOUTH. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE BURNS AND CORNEAL ABRASIONS. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use only graphite powder, soda ash, powdered sodium chloride, or an appropriate metal-fire-extinguishing dry powder. DO NOT use water, carbon dioxide, or foam!

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: When heated in air to a temperature near its melting point, magnesium may ignite and burn. Dangerous in the form of dust or flakes and when exposed to flame or by violent chemical reaction with oxidizing agents. Magnesium may react with moisture or acids to evolve hydrogen gas, which is a highly dangerous fire or explosion hazard.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Using non-sparking tools, sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources. Keep away from water and moisture.

Section 8	Exposure Controls / Personal Pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Magnesium	Not established	Not established	Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9							
	Physical & Chemical Prop	erties					
Odor: No odor. Odor threshold: Da pH: Data not availa	ble. point: 651°C (1203.8°F))°C (2030°F)	Flammability (Explosion limi Vapor pressur Vapor density Relative density	ate (=1): Data not a solid/gas): Data not a ts: Lower / Upper: D e (mm Hg): 1 mm @ (Air = 1): Data not av y (Specific gravity): 1.7 : Negligible in water.	available. Data not available 621°C ailable	Auto-ignit Decompos Viscosity: Molecular	coefficient: Data ion temperature: sition temperatur Data not availab formula: Mg weight: 24.31	: 510°C (950°F) re: Data not available.
Section 10	Stability & Reactivity						
	Stable d: Excessive temperatures, heat rials: Magnesium will react with	, sparks, open fla		of ignition.	chlorine, bror	nine, iodine and o	xidizing agents.
Hazardous decom	position products: Hydrogen.						
Section 11	Toxicological Information						
Carcinogenity: Da NTP: No componen IARC: No componen OSHA: No componen Reproductive toxic STOT-single expos STOT-repeated exp	hicity: Data not available ta not available t of this product present at levels nt of this product present at levels ent of this product present at level city: Data not available soure: Data not available posure: Data not available	s greater than or	equal to 0.1% is identi	fied as probable, po	ssible or confi	rmed human card	0
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Section 16 **Other Information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015