

MATERIAL SAFETY DATA SHEET

Magnesium

SECTION 1 . Product and Company Identification

Product Name and Synonym: Magnesium
Product Code: M0154
Material Uses:
Manufacturer: Science Stuff
1104 Newport Ave
Austin, TX 78753
(512) 837-6020
Entry Date : 6/11/2013
Print Date: 6/11/2013
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	1
Flammability:	2
Reactivity:	2

Hazard Rating:
Least Slight Moderate High Extreme
0 1 2 3 4
NA=Not Applicable NE=Not Established

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Magnesium	CAS# 7439-95-4	100%	W/W	None established

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Smother with dry graphite or suitable dry powder such as sand, dry talc, G1
Fire / Explosion Hazards: Powder may form explosive mixtures with air.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Magnesium

Collect scrap in containers for remelting.

SECTION 7 HANDLING AND STORAGE

Protect containers against physical damage. Store away from other combustibles in metal cabinet. Scraps should be kept dry prior to remelting operations.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Wear appropriate gloves to prevent skin exposure
Eye Protection: Goggles and Face Shield
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	1202 Deg F	Percent Volatile by Volume:	0
Boiling Point:	2030 Deg F	Evaporation Rate	0
Vapor Pressure:	1mm@621°C	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	may autoignite if damp
Solubility in Water:	Negligible	Lower Flamm. Limit in Air	Information not available
Appearance /Odors:	Silvery white	Upper Flamm. Limit in Air	Information not available
Flash Point:	None		
Specific Gravity:	1.74		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Moisture, heat, sparks and flames
Materials to Avoid: Water and acids will release hydrogen gas, possible explosion!
Hazardous Decomposition Products: Not known to occur
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

Magnesium

DOT Classification: Magnesium, Powder,4.3,(4.2), UN1418, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

SECTION 16 Additional Information

If inhaled remove to fresh air . If comes in contact with skin or eyes wash with water for atleast 15 minutes. Temporary symptoms may include fever, chills, nausea, vomiting, and muscular pain. Persons with pre-existing disorders may be more susceptible. Magnesium powder in air will sometimes autoignite at temperatures significantly less then its melting point of 1202 F. The finer the powder, the more readily it will ignite! Magnesium powder will readily ignite in the presence of any spark or flame. Magnesium powder will autoignite when heated in air even though kept below its melting point. Once ignited magnesium powder will burn vigorously with an intense white flame. It can only be extinguished by smothering and allowing it to cool Water should NOT be used on a magnesium powder fire! Water acts as an accelerant. Water and magnesium powder will produce hydrogen gas which may result in an expollosion.

Flammability

Health

Reactivity

Revisions

NFPA

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