

MATERIAL SAFETY DATA SHEET

Magnesium

SECTION 1 . Product and Company Identification

Product Name and Synonym: Magnesium
Product Code: M0168
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. Harmful if swallowed. Avoid breathing vapors. 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. Harmful if swallowed. Avoid breathing vapors. 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: Melting flux/dry sand &/or metal exting
pwr. DO NOT USE WATER!
Fire / Explosion Hazards: Dangerous in the form of dust or flakes. When
heated in air to near melting point, may ignite
and burn.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing
to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Magnesium

Remove all sources of ignition wear protective equipment. Clean up in a manner that doesn't disperse dust. Sweep up and containerize for later reclamation.

SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

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: Face Shield and chem worker goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	649 ° C	Percent Volatile by Volume:	N/A
Boiling Point:	1110° C	Evaporation Rate	N/A
Vapor Pressure:	1mm@621°	Evaporation Standard	
Vapor Density:	information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Not soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Silver solid, odorless	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Not known		
Specific Gravity:	1.74		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Moisture, Incompatible substances

Materials to Avoid: Oxides, carbonates, cyanides, chlorinated hydrocarbons

Hazardous Decomposition Products: Fire produces toxic fumes and vapors

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

Magnesium

SECTION 14 Transport Information

DOT Classification: Magnesium Turnings, 4.1, UN1869, PG III

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

Inhalation of dust may irritate respiratory tract and may cause coughing, chest pain, and fever. Ingestion may cause stomach pain and diarrhea. Particles imbedded in the skin may cause eruptions. Molten magnesium may cause serious burns. Conditions aggravated/target organs: Persons with pre-existing eye, skin, or respiratory conditions may be more susceptible.

Flammability

Health

Reactivity

Revisions

NFPA

1

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.