Product: Magnesium Ribbon Page 1 of 5







American Scientific, LLC

Safety Data Sheet

Section 1 Product Description

Magnesium, Ribbon

Product Name: Magnesium, Ribbon

Recommended Use: Science education applications

Synonyms: None known

Manufacturer: American Scientific, LLC 6420 Fiesta Drive, Columbus, OH 43235

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec for Emergency: 800-424-9300 (Transportation Spill Response 24 hours)

Phone Number for Information: (614) 764-9002 **Fax Number for Information:** (614) 764-9043

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Flammable solid. In contact with water releases flammable gases which may ignite spontaneously.

GHS Classification:

Flammable Solid Category 1, Substance or mixture which in contact with water emits flammable gas Category 1

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

Acute Toxicity Inhalation Vapor

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

Acute Toxicity Inhalation Dust/Mist

100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

Product: Magnesium Ribbon Page 2 of 5

Section 3

Composition / Information on Ingredients

Chemical Name Magnesium Ribbon CAS #7439-95-4 100%

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or

label.

Section 5

Firefighting Procedures

Extinguishing Media: Use dry chemical or cover with dry sand or lime.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH

approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition

products.

Hazardous Combustion Products: Metal fumes

Section 6

Spill or Leak Procedures

Steps to Take in Case Material is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not flush spill to drain.

Section 7

Handling and Storage

Handling:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Ground / bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Wear protective gloves/protective clothing/eye protection/face protection.

Product: Magnesium Ribbon Page 3 of 5

Storage:

Store in a dry place. Store in a closed container.

Storage Code:

Red – Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

Chemical	TWA	ACGIH	STEL	TWA	OSHA PEL	STEL
Name						
Magnesium	N/A	N/A	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.
Respiratory Protection:	No respiratory protection required under normal conditions of use.
Respirator Type(s):	None required where adequate ventilation is provided. If airborne
	concentrations are above the applicable exposure limits, use
	NIOSH/MSHA approved respiratory protection

Section 9 Physical Data

Formula: Mg Vapor Pressure: 1 mmHg at 621 C

Molecular Weight 24.30 Evaporation Rate (BuAc=1): No data available

Appearance: Silver-White Solid Vapor Density: (Air=1) 0.84

Odor: None

Odor Threshold: No data available

pH: No data available

Specific Gravity: 1.738 @ 20 deg C

Solubility in Water: Practically Insoluble

Log Pow (calculated): No data available

Melting Point: 651 C Log Pow (calculated): No data available Autoignition Temperature: 473 C

Boiling Point: 1107 C Decomposition Temperature: No data available

Flash Point: 500 C Viscosity: No data available

Flammable Limits in Air: No data available Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity:	Moderately reactive – see below	
Chemical Stability:	Stable under normal conditions	
Conditions to Avoid:	Exposure to moisture	
Incompatible Materials:	Strong oxidizing agents, Carboinates, Ammonium Salts,	
	Cyanide Salts, Ethylene oxide, Halogenated	
	Hydrocarbons, Halogens, Cyanogen	
Hazardous Decomposition Products:	Metal Fumes	
Hazardous Polymerization:	Will not occur	

Product: Magnesium Ribbon Page **4** of **5**

Section 11 Toxicity Data

Magnesium Ribbon Toxicity Data

Acute Toxicity: CAS Number Oral LD50 Dermal LD50 Inhalation LC50

7439-95-4 Oral LD Rat 230 Not applicable Not applicable

Carcinogenicity: CAS Number IARC NTP OSHA

7439-95-4 Not Listed Not Listed Not Listed

Routes of Entry Inhalation and ingestion

Symptoms (Acute): Respiratory Irritation, Dermititis, Tremors

Delayed Effects: Gastrointestinal

Chronic Effects: No evidence of a mutagenic effect

Mutagenicity:

Teratogenicity:

Sensitization:

Reproductive:

No evidence of a mutagenic effect
No evidence of a mutagenic effect
No evidence of a mutagenic effect

Target Organ Effects:

Acute: No data available Chronic: No data available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Chemically Transformed

Bioaccumulation: No data

Degradability: Naturally occuring element. Does not biodegrade.

Other Adverse Effects: No data

Chemical Name (Magnesium)

CAS Number
7439-95-4

Eco Toxicity
Not applicable

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Ground - DOT Proper Shipping Name:
UN1869	UN1869
Magnesium	Magnesium
Division 4.1	Division 4.1
P.G. III	P.G. III

Product: Magnesium Ribbon Page **5** of **5**

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name: Magnesium CAS Number: 7439-95-4

§ 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2) TQ

No No No No

Section 16

Additional Information

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV IDLH	Threshold Limit Value Immediately dangerous to life and health