# Magnesium

### 1 PRODUCT AND SUPPLIER IDENTIFICATION

**Product Name**: Magnesium - pieces, pellets, rod, sheet, target

Formula: Mg

Supplier: Eagle Alloys Corporation

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24 HOUR EMERGENCY ASSISTANCE: CHEMTREC 800-424-9300

Recommended Uses: Scientific Research

# **2 HAZARDS IDENTIFICATION**

GHS Classification (29 CFR 1910.1200): Not classified as hazardous

GHS Label Elements: Signal Word: N/A Hazard Statements: N/A

**Precautionary Statements**: N/A

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

 Ingredient:
 Magnesium

 CAS#:
 7439-95-4

 %:
 100

 EC#:
 231-104-6

### **4 FIRST AID MEASURES**

General Measures: No special requirements.

INHALATION: Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek medical

attention.

**INGESTION**: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or

give anything by mouth to an unconscious person.

**SKIN**: Remove contaminated clothing, brush material off skin, wash affected area with soap and water. Seek

medical attention if symptoms persist.

**EYES**: Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek

medical attention if symptoms persist.

Most Important Symptoms/Effects, Acute and Delayed: See section 11 for more information.

Indication of Immediate Medical Attention and Special Treatment: No other relevant information available.

### **5 FIREFIGHTING MEASURES**

Extinguishing Media: Use Class D dry powder extinguishing agent.

Unsuitable Extinguishing Media: Do not use water.

**Specific Hazards Arising from the Material**: Pieces >3 mm thick are difficult to ignite but possible when heated to near the melting point. May emit fumes of magnesium oxide under fire conditions.

**Special Protective Equipment and Precautions for Firefighters**: Full face, self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

#### **6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment, and Emergency Procedures**: Wear appropriate respiratory and protective equipment specified in section 8. Avoid dust formation. Avoid contact with skin and eyes. Avoid breathing dust or fume. Eliminate all sources of ignition. Isolate spill area.

**Methods and Materials for Containment and Cleaning Up**: Sweep or scoop spilled product and place in a closed container for further handling and disposal. Use non-sparking tools and natural bristle brushes.

**Environmental Precautions**: Do not allow to enter drains or to be released to the environment.

### **7 HANDLING AND STORAGE**

**Precautions for Safe Handling**: Avoid creating dusts. Protect against physical damage. Protect from sources of ignition. Avoid contact with skin and eyes. Wash thoroughly before eating or smoking. See section 8 for information on personal protection equipment.

**Conditions for Safe Storage, Including Any Incompatibilities**: Store in a sealed container. Store in a cool, dry area. Protect from moisture. Do not store together with oxidizers, acids or halogens. See section 10 for more information on incompatible materials.

### **8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure Limits**: Magnesium

OSHA/PEL: No exposure limit established ACGIH/TLV: No exposure limit established

**Appropriate Engineering Controls**: Ensure adequate ventilation to maintain exposures below occupational limits. Use good housekeeping and sanitation practices. Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

**Individual Protection Measures, Such as Personal Protective Equipment:** 

**Respiratory Protection**: If permissible levels are exceeded, use NIOSH approved dust respirator.

Eye Protection: Safety glasses

**Skin Protection**: Wear impermeable gloves, protective work clothing as necessary.

# 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Solid in various forms

Color: Silver metallic
Odor: Not determined
Odor Threshold: Not determined
pH: N/A
Melting Point: 648.8 °C

Boiling Point: 1107 °C
Flash Point: N/A
Evaporation Rate: N/A
Flammability: No data
Upper Flammable Limit: No data
Lower Flammable Limit: No data

**Vapor Pressure**: 10 mm at 743 °C

Vapor Density: N/A

Relative Density (Specific Gravity): 1.74 g/cc

**Solubility in H₂O**: Insoluble

Partition Coefficient (n-octanol/water): Not determined

**Autoignition Temperature**: No data **Decomposition Temperature**: No data **Viscosity**: N/A

### **10 STABILITY AND REACTIVITY**

Reactivity: No data

**Chemical Stability**: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: May ignite when heated to the melting point. Flammable in the form of dust

when exposed to heat, spark or flame.

**Conditions to Avoid**: Avoid contact with water or moisture, ignition sources.

Incompatible Materials: Acids, acid chlorides, oxidizing agents, halocarbons, halogens, water/moisture.

Hazardous Decomposition Products: Magnesium oxides.

### 11 TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure**: Inhalation, skin, eyes. Product as shipped does not present an inhalation hazard; however subsequent operations may create dusts or fumes which could be inhaled.

**Symptoms of Exposure**: Dust may cause irritation to upper respiratory tract, skin or eyes.

**Acute and Chronic Effects**: May be irritating to skin, eyes and the respiratory system. Small particles imbedded in skin may cause ulceration which may become infected. Inhalation of excessive concentrations of oxide fume may cause metal fume fever.

Acute Toxicity: No data

Carcinogenicity: NTP: Not identified as carcinogenic IARC: Not identified as carcinogenic

To the best of our knowledge the chemical, physical and toxicological characteristics of the substance are not fully

known.

### 12 ECOLOGICAL INFORMATION

**Ecotoxicity**: No data

**Persistence and Degradability**: No data **Bioaccumulative Potential**: No data

Mobility in Soil: No data

Other Adverse Effects: Do not allow material to be released to the environment. No further relevant information

available.

### 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method:

**Product**: Dispose of in accordance with Federal, State and Local regulations. **Packaging**: Dispose of in accordance with Federal, State and Local regulations.

### **14 TRANSPORT INFORMATION**

Shipping Regulations: Not regulated UN Number: N/A UN Proper Shipping Name: N/A Transport Hazard Class: N/A Packing Group: N/A No

### 15 REGULATORY INFORMATION

TSCA Listed: All components are listed.

Regulation (EC) No 1272/2008 (CLP): N/A

Canada WHMIS Classification (CPR, SOR/88-66): N/A
HMIS Ratings: Health: 0 Flammability: 1 Physical: 1
NFPA Ratings: Health: 1 Flammability: 1 Instability: 1

**Chemical Safety Assessment**: A chemical safety assessment has not been carried out.

# **16 OTHER INFORMATION**

The information contained in this document is based on the state of our knowledge at the time of publication and is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Eagle Alloys Corporation makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information. Eagle Alloys Corporation shall not be held liable for any damages resulting from handling or from contact with the above product. Users should satisfy themselves that they have all current data relevant to their particular use.

**Prepared by:** Eagle Alloys Corporation

**Revised/Reviewed**: November 2015

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