MAGNESIUM POWDER

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

High Purity Atomized Spherical Magnesium Product name:

(Mg) Powder

CAS Number: 7439-95-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use: Laboratory chemicals, Industrial & for professional use only

1.3 Details of the supplier of the safety data sheet

Company name: Heeger Materials Inc. 230

Steele St Denver CO 80206 **United States**

Ser Mate Telephone: +925-385-8104

Email: sales@heegermaterials.com

1.4 Emergency telephone number

0800 246 1274 **Emergency telephone:**

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910 (OSHA HCS)

H250 Pvr. Solid 1

H260 Water React. Flam. Gas 1

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

Hazard Pictograms



Signal Word	Dangei
Hazard Statements	

Flammable solid. H228

Catches fire spontaneously if exposed to air. H250

Causes skin irritation. H315

Causes serious eye irritation. H319 May cause respiratory irritation. H335

In contact with water releases flammable gases which may ignite H260

spontaneously.

MAGNESIUM POWDER

Precautionary:	Statements
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P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P223	Do not allow contact with water.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical / ventilating / lighting equipment.
P242	Use only non-sparking tools.
P261	Avoid breathing dust/fume/gas/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
P370 + P378	In case of fire: Use sand to extinguish.
P402 + P404	Store in a dry place. Store in a closed container.

2.3 Other Hazards

Not available

Section 3: Composition/information on ingredients

3.1 Substances

Pals Inc Atomized Magnesium, Atomized Spherical Magnesium Synonyms

Formula Mg **CAS Number** 7439-95-4

3.2 Mixtures

Not applicable.

Section 4: First aid measures

4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

First-aid measures after inhalation

Provide fresh air. If not breathing, give artificial respiration. Get medical attention.

First-aid measures after skin contact

Wash off with plenty of water and soap. Remove contaminated clothing. Consult a physician.

First-aid measures after eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms develop.

First-aid measures after ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation of dusts or fumes may irritate the respiratory tract and may cause metal fume fever. Symptoms may include coughing, chest pain and fever. Magnesium generates an intense bring white light when burning which can cause irreversible eye injury if looked at directly without ocular protection.

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4.3 Indication of any immediate medical attention and special treatment needed

No data available.

4.4 Other Information

No data available.

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable Extinguishing Media Unsuitable Extinguishing Media G-1 Graphite Powder, Dry Sand, Met-L-X Powder Water, Foam, Chlorinated products

5.2 Special hazards arising from the substance or mixture

Use of water on molten magnesium will produce hydrogen gas and may cause an explosion.

5.3 Advice for firefighters

Special protective equipment for firefighters - Wear full protective clothing with self-contained breathing apparatus. Fire fighters should protect their eyes and skin from flying particles.

5.4 Further Information

In order to prevent eye injury, do not look directly at magnesium fires.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Remove all sources of ignition. Wear personal protective equipment. Avoid dust formation. Do not breathe dust. Do not smoke, eat or drink. Do not use water to clean the spill.

6.2 Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Do not use water. If the material comes in contact with water: Proceed with caution. Evacuate area. Hydrogen may generate a fire or an explosion. Wear full-protective equipment and let the spillage dry.

6.4 Reference to other sections

For further information refer to section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Handle in accordance with good industrial hygiene and safety practice.

Advice on Protection Against Fire and Explosion

Keep away from any possible contact with water. Use only non-sparking tools and equipment. Protect from moisture.

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7.2 Conditions for safe storage, including any incompatibilities Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Keep away from heat and sources of ignition. Flammables area. Humidity in the storage unit should be less than 85%.

Incompatible Materials

Water, Bromine, Chlorine, Iodine, Acids, Oxidizers

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1 Control parameters

No data available.

8.2 Exposure controls /

Appropriate engineering controls

Ensure adequate ventilation. Use explosion-proof electrical/ ventilating / lighting / equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Do not let dispersion of Magnesium dust into the general work area. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Hand Protection

Use antistatic gloves. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection

Eye protection (EN 166). Tightly fitting safety goggles with side shields.

Skin and Body Protection

Impervious and antistatic clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

The EPA mandates the use of full-face respirators with minimum N100 grade cartridges if there is any risk of exposure to the dust. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental Exposure Controls

Do not allow to enter into surface water or drains.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Powder
Colour Silver-Gray
Odour Odourless

Odour Threshold No data available PH No data available Relative Evaporation Rate No data available

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650 °C Melting Point 650 °C Freezing Point

Boiling Point No data available Flash Point No data available

Auto-ignition Temperature >300 °C

Decomposition Temperature No data available Flammability (solid, gas) No data available Vapor Pressure No data available

Relative vapor density at 20°C No data available

Relative Density 1.74 g/cm3 Solubility in H2O Reacts with water

Log Pow No data available Viscosity, Kinematic No data available Viscosity, Dynamic No data available

Explosive Properties Lower: No data available Upper: No data available

Oxidizing Properties No data available

9.2 Other information

No other information available

Section 10: Stability and Reactivity

10.1 Reactivity 10.2 Chemical Stability

Moisture sensitive. Pyrophoric. Magnesium when heated above 350°C may auto-ignite.

10.3 Possibility of hazardous reactions Magnesium in contact with moisture or acids will

generate hydrogen which is highly dangerous fire or explosion hazard. Magnesium in finely divided form

will react violently with oxidizing agents. 10.4 Conditions to avoid Avoid dust formation, incompatible products, exposure to air, exposure to moist air or water,

excess heat

10.5 Incompatible materials Water, Acids, Bases, Oxidizing Agents, Bromine,

Chlorine, Iodine.

Water reactive.

10.6 Hazardous decomposition products Hydrogen, Magnesium Nitride, Nitrogen Oxides

Section 11: Toxicological Information

11.1 Information on toxicological effects

Not classified. Acute Toxicity Oral:

Dermal: No data available. Respiratory: No data available.

Skin corrosion/irritation Not irritating. Serious eye damage/irritation Not irritating. Respiratory or Skin Sensitization No effects known. Germ Cell Mutagenicity Not classified. Carcinogenicity Not classified.

Reproductive Toxicity Not classified. STOT-Single Exposure No data available.

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STOT-Repeated Exposure No data available. Aspiration Hazard No data available.

Section 12: Ecological Information

12.1 Toxicity

Ecology-general Not classified.
Acute aquatic toxicity No data available.
Chronic aquatic toxicity No data available.

12.2 Persistence and degradabilityNo data available.

12.3 Bioaccumulative potentialNo data available.

12.4 Mobility in soil No data available.

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical

safety assessment not required/not conducted.

12.6 Other adverse effectsDo not allow product to enter surface waters,

wastewater, or soil.

chall

Section 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material that cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Processing, use or contamination of this product may change the waste management options. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of as unused product.

Section 14: Transport Information

ADR IMDG IATA RID

UN Number

1418 1418 1418 1418 1418

UN Proper Shipping Name

MAGNESIUM POWDER MAGNESIUM POWDER MAGNESIUM POWDER MAGNESIUM POWDER

Transport Document Description

4.3, II, Substances which, in contact with water, emit flammable gases, Solid

4.3, II, Substances which, in contact with water, emit flammable gases, Solid

4.3, II, Substances which, in contact with water, emit flammable gases, Solid

4.3, II, Substances which, in contact with water, emit flammable gases, Solid

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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Section 15: Regulatory Information

15.1 Safety, health and environmental regulations

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

16.1 Abbreviation of acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

International Air Transport Association IATA

Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No REACH

1907/2006

PBT Persistent Bioaccumulative Toxic

Regulations concerning the International Carriage of Dangerous Goods by Rail RID

vPvB Very Persistent and Very Bioaccumulative

16.2 Full text of H-statements

H250 Catches fire spontaneously if exposed to air.
H260 In contact with water releases flammable gases which may ignite spontaneously.

16.3 Hazard Classification

Health 0 Flammability 1 Reactivity 1

Special Hazards

Disclaimer This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.