Vickers Laboratories Ltd - Safety Data Sheet

0398

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 0398

Product Name MAGNESIUM METAL GRANULES

CAS Number 7439-95-4

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula Mg =24.31

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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(24hr) 112 (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Pyrophoric solid, category 1

Contact with water > flam gas, category 1

H250: Catches fire spontaneously if exposed to air.

H260: In contact with water releases flammable gases which may ignite spontaneously.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements In contact with water releases flammable gases which may ignite spontaneously. Catches fire spontaneously if

exposed to air.

Precautionary Statements Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under

inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Evacuate area.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Magnesium	7439-95-4	231-104-6		99.5%	Pyr. Sol. 1,Water-react. 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If

discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If conscious place in a sitting position. If there is difficulty in

breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation.

OBTAIŇ MEDIĆĂL ATTENTION.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Dry chemical powder.

Unsuitable Media Do not allow water to come into direct contact with material.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire. Reacts with water to form extremely flammable gas.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment. Avoid breathing dust-wear respiratory protective equipment. Ensure

no sources of ignition. Avoid raising dust clouds- explosion risk.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with water, acids or other aqueous solutions.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place protected against moisture and water. Keep well protected from ingress of water and well separated from acids

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr TWA)		Short Term 15min period)	
Magnesium	7439-95-4	99.5%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Fine silvery-grey metallic powder.

Odour No specific odour. pН Not applicable 1110 °C **Boiling Point** Melting Point 651 °C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable

Explosive Properties Can form explosive dust clouds.

Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.7380

Water Solubility Reacts with water evolving a flammable gas.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity

10.2 Chemical Stability Stable under normal conditions but spontaneously flammable in air above 220C.

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Avoid contact with water or water vapour.

10.5 Incompatable Materials Contact with water evolves flammable hydrogen gas. Forms explosive compounds with ammonia, acetylenic

compounds, azides and ethylene oxide. Halogenated alkane solvents eg, carbon tetrachloride, dichloromethane,

tetrachloroethane etc. Strong oxidising agents.

10.6 Decomposes to emit highly irritant fumes. **Hazardous Decomposition**

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The dust is irritating to the eyes.

Skin Presents no significant hazard by skin contact.

LD50 Skin Not available

Ingestion Low order of acute toxicity.

LD50 Oral Not available

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects No information is available.

Section 12. Ecological

12.1 Toxicity None unusual.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available. Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Small amounts may be carefully decomposed in a large excess of water.

Contaminated Packaging Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 2950

14.2 Proper Shipping Name Magnesium granules, coated

14.3 Transport classes

UN classification 4.3
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 423
Tunnel Restriction Code E
Packing Group III



14.4 Packing Group III

14.5 Environment hazards See section 12.

14.6 Special precautions for

14.7 Transport in bulk

Not transported in bulk.

No special precautions required.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Pyrophoric solid, category 1; Contact with water > flam gas, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H260, H250

In contact with water releases flammable gases which may ignite spontaneously. Catches fire spontaneously if

exposed to air.

Hazard Statements (Packs

of 100ml/g or less)

H250, H260

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

spontaneously.

Precautionary Statements P223, P231+P232, P280, P335+P334, P370+P380

Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Evacuate area.

Precautionary Statements (Packs of 100ml/g or less)

P223, P370+P380

Keep away from any possible contact with water, because of violent reaction and possible flash fire. In case of

fire: Evacuate area.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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