

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 1.0

Revision: 02.06.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** Magnesium, turnings, EssentQ®, according to Grignard**Article number:** MA0025**CAS Number:**

7439-95-4

EC number:

231-104-6

Index number:

012-002-00-9

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

No further relevant information available.

Application of the substance / the preparation: Laboratory reagent**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Scharlab, S.L.

C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa

08181 Sentmenat (Barcelona) SPAIN

Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65

email: scharlab@scharlab.com

Internet Web Site: www.scharlab.com

Regional representation:

Scharlab, S.L.

C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa

08181 Sentmenat (Barcelona) SPAIN

Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65

email: scharlab@scharlab.com

Internet Web Site: www.scharlab.com

Further information obtainable from: technical department**1.4 Emergency telephone number:**

Please contact the regional Scharlab distributor/dealer in your country

During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Water-react. 2 H261 In contact with water releases flammable gases.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02

Signal word Danger**Hazard statements**

H261 In contact with water releases flammable gases.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 1.0

Revision: 02.06.2021

Trade name: Magnesium, turnings, EssentQ®, according to Grignard

(Contd. of page 1)

Precautionary statements

- P223 Do not allow contact with water.
- P231+P232 Handle and store contents under inert gas. Protect from moisture.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P370+P378 In case of fire: Use for extinction: CO₂, sand, extinguishing powder.
- P402+P404 Store in a dry place. Store in a closed container.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.1 Chemical characterisation: Substances****CAS No. Description**

7439-95-4 magnesium powder (pyrophoric)

Identification number(s)**EC number:** 231-104-6**Index number:** 012-002-00-9**SECTION 4: First aid measures****4.1 Description of first aid measures**

- After inhalation:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:** Generally the product does not irritate the skin.
- After eye contact:** Rinse opened eye for several minutes under running water.
- After swallowing:** If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and 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: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

Sand. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet**5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

5.3 Advice for firefighters**Protective equipment:** No special measures required.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: No special measures required.

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 1.0

Revision: 02.06.2021

Trade name: Magnesium, turnings, EssentQ®, according to Grignard

(Contd. of page 2)

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Handle under protective gas.**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities**Storage:**

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls**Personal protective equipment:**

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 1.0

Revision: 02.06.2021

Trade name: Magnesium, turnings, EssentQ®, according to Grignard

(Contd. of page 3)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Powder

Colour:

White

Odour:

Odourless

Odour threshold:

Not determined.

pH-value:

Not applicable.

Change in condition

Melting point/freezing point:

649.5 °C

Initial boiling point and boiling range:

1090 °C

Flash point:

500 °C

Flammability (solid, gas):

Highly flammable.

Contact with water liberates extremely flammable gases.

Decomposition temperature:

Not determined.

Auto-ignition temperature:

Not determined.

Explosive properties:

Not determined.

Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

Vapour pressure at 20 °C:

0 hPa

Density at 20 °C:

1.738 g/cm³

Relative density

Not determined.

Vapour density

Not applicable.

Evaporation rate

Not applicable.

Solubility in / Miscibility with water:

Insoluble.

Partition coefficient: n-octanol/water:

Not determined.

Viscosity:

Dynamic:

Not applicable.

Kinematic:

Not applicable.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions Contact with water releases flammable gases.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 1.0

Revision: 02.06.2021

Trade name: Magnesium, turnings, EssentQ®, according to Grignard

(Contd. of page 4)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
 - **ADR, IMDG, IATA**
 - **14.2 UN proper shipping name**
 - **ADR**
 - **IMDG, IATA**
- | |
|----------------|
| UN1869 |
| 1869 MAGNESIUM |
| MAGNESIUM |

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 1.0

Revision: 02.06.2021

Trade name: Magnesium, turnings, EssentQ®, according to Grignard

(Contd. of page 5)

14.3 Transport hazard class(es)
ADR, IMDG, IATA

Class
Label
14.4 Packing group
ADR, IMDG, IATA
14.5 Environmental hazards:
Marine pollutant:
14.6 Special precautions for user
Hazard identification number (Kemler code): 40

EMS Number:
Stowage Category
Handling Code
Segregation Code

4.1 Flammable solids, self-reactive substances and solid desensitized explosives.

4.1

III

No

Warning: Flammable solids, self-reactive substances and solid desensitized explosives.

40

4.1-02

A

H1 Keep as dry as reasonably practicable

SG17 Stow "separated from" class 5.1

SG25 Stow "separated from" goods of classes 2.1 and 3.

SG26 In addition: from goods of classes 2.1 and 3 when stowed on deck of a containership a minimum distance of two container spaces athwartship shall be maintained, when stowed on ro-ro ships a distance of 6 m athwartship shall be maintained.

SG32 Stow "away from" SGG10-liquid halogenated hydrocarbons

SG35 Stow "separated from" SGG1-acids

SG36 Stow "separated from" SGG18-alkalis.

SG52 Stow "separated from" iron oxide

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:
ADR
Limited quantities (LQ)
Transport category
Tunnel restriction code
UN "Model Regulation":

5 kg

3

E

UN 1869 MAGNESIUM, 4.1, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Directive 2012/18/EU
Named dangerous substances - ANNEX I -
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 40

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Version number 1.0

Revision: 02.06.2021

Trade name: Magnesium, turnings, EssentQ®, according to Grignard

(Contd. of page 6)

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Department issuing SDS:** product safety department

- **Contact:** msds@scharlab.com

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2