

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Magnesium, turnings acc. to Grignard, 250 g

Print date: 14.04.2015

Product code: 9991577

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Magnesium, turnings acc. to Grignard, 250 g

CAS No: 7439-95-4

EC No: 231-104-6

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet**Seller**

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1

Place: D-66459 Kirkel

Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH

Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

1.4. Emergency telephone number: +49 (0)681 302-71232**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: F - Highly flammable

R phrases:

Highly flammable.

Contact with water liberates extremely flammable gases.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable solid: Flam. Sol. 1

Substance or mixture which in contact with water emits flammable gas: Water-react. 2

Hazard Statements:

Flammable solid.

In contact with water releases flammable gases.

2.2. Label elements

Signal word: Danger

Pictograms: GHS02



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Hazard statements

H228 Flammable solid.
H261 In contact with water releases flammable gases.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P370+P378 In case of fire: Use Dry sand. Extinguishing powder. to extinguish.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: Mg
Molecular weight: 24,31

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
231-104-6	Magnesium	100 %
7439-95-4	F - Highly flammable R11-15	
	Flam. Sol. 1, Water-react. 2; H228 H261	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

D -powder, Dry sand, Cement.

Unsuitable extinguishing media

Water, Foam.

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5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. Danger of spontaneous combustion.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Take up carefully when dry. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with water. Never add water to this product.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container dry. Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

none

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special

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purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid
 Colour: silver grey

Test method

pH-Value: not determined

Changes in the physical state

Melting point: 648 °C

Initial boiling point and boiling range: 1090 °C

Flash point: not applicable

Flammability

Solid: not determined

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: 1 hPa
 (at 621 °C)

Density (at 25 °C): 1,74 g/cm³

Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with water. Flammable, Ignition hazard.

10.2. Chemical stability

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Decomposes in contact with water.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Formation of explosive mixtures with: Water. Ignition hazard. Keep away from heat. Remove all sources of ignition. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Protect from moisture. Never add water to this product. Keep away from: Material, oxygen-rich, oxidizing.

10.6. Hazardous decomposition products

In contact with water releases flammable gases.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Additional information on tests**

This mixture is classified as hazardous according to 1999/45/EC.

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

12.2. Persistence and degradability

Decomposes in contact with water.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Avoid contact with water. Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

UN 1869

14.2. UN proper shipping name:

MAGNESIUM in pellets, turnings or ribbons

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14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1
 Classification code: F3
 Special Provisions: 59
 Limited quantity: 5 kg
 Transport category: 3
 Hazard No: 40
 Tunnel restriction code: E

Other applicable information (land transport)
E1

Inland waterways transport (ADN)

14.1. UN number: UN 1869
14.2. UN proper shipping name: MAGNESIUM in pellets, turnings or ribbons
14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1
 Classification code: F3
 Special Provisions: 59
 Limited quantity: 5 kg

Other applicable information (inland waterways transport)
E1

Marine transport (IMDG)

14.1. UN number: UN 1869
14.2. UN proper shipping name: MAGNESIUM in pellets, turnings or ribbons
14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1
 Special Provisions: 59, 920
 Limited quantity: 5 kg
 EmS: F-G, S-G

Other applicable information (marine transport)
E1

Air transport (ICAO)

14.1. UN number: UN 1869
14.2. UN proper shipping name: MAGNESIUM in pellets, turnings or ribbons
14.3. Transport hazard class(es): 4.1
14.4. Packing group: III
 Hazard label: 4.1
 Special Provisions: A15 A803
 Limited quantity Passenger: 10 kg
 IATA-packing instructions - Passenger: 446
 IATA-max. quantity - Passenger: 25 kg
 IATA-packing instructions - Cargo: 449
 IATA-max. quantity - Cargo: 100 kg

Other applicable information (air transport)
E1

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: Y443

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Flammable solids.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 3 - highly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Abbreviations and acronyms**ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant R-phrases (Number and full text)

- 11 Highly flammable.
15 Contact with water liberates extremely flammable gases.

Relevant H- and EUH-phrases (Number and full text)

- H228 Flammable solid.
H261 In contact with water releases flammable gases.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.