

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.

59500 Çerkezköy

Date printed 06.06.2013, Revision 26.04.2011

Page 1 / 9

SECTION 1: Identification of the substance / preparation and of the company**1.1 Product identifier**

| | |
|---------------|----------------------------|
| | Magnesium granulate |
| IUPAC | magnesium |
| EU-INDEX | 012-002-00-9 |
| EINECS/ELINCS | 231-104-6 |
| CAS | 7439-95-4 |

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant uses**

Usage only in accordance with the identified usages as stipulated in the CSR/CSA.
Raw material for industrial applications

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

| | |
|----------------|---|
| Company | MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş. |
| | OSB 9.Sokak No:5 59500 Çerkezköy / REPUBLIC OF TURKEY Phone +90 282 758 18 34 PBX (3) Fax +90 282 758 18 40 Homepage www.magnezyummetal.com E-mail info@magnezyummetal.com |

Address enquiries to

| | |
|------------------------------|-------------------------|
| Technical information | info@magnezyummetal.com |
| Safety Data Sheet | sdb@chemiebuero.de |

1.4 Emergency phone

| | |
|----------------|---------------------------|
| Company | +90 282 758 18 34 PBX (3) |
|----------------|---------------------------|

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

see SECTION 16

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC**Hazard symbols**

Highly flammable

R-phrases

R 11: Highly flammable.
R 15: Contact with water liberates extremely flammable gases.

2.2 Label elements**Labelling according to Regulation (EC) 1272/2008****Hazard pictograms****Signal word**

DANGER

Contains:

magnesium EU-INDEX 012-002-00-9

Hazard statements

H228 Flammable solid.
H261 In contact with water releases flammable gases.
H252 Self-heating in large quantities; may catch fire.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P223 Do not allow contact with water.
P240 Ground/bond container and receiving equipment.

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.

59500 Çerkezköy

Date printed 06.06.2013, Revision 26.04.2011

Page 2 / 9

2.3 Other hazards

| | |
|--------------------------|--|
| Physico-chemical hazards | See SECTION 10. |
| Human health dangers | See SECTION 11. |
| Environmental hazards | Does not contain any PBT or vPvB substances. |
| Other hazards | Further hazards were not determined with the current level of knowledge. |

SECTION 3: Composition / Information on ingredients**3.1 Product-type:**

The product is a substance.

| Range [%] | Substance |
|------------|--|
| max. 99,95 | magnesium |
| | CAS: 7439-95-4, EINECS/ELINCS: 231-104-6, EU-INDEX: 012-002-00-9, ECB-Nr.: 01-2119537203-49-xxxx |
| | GHS/CLP: Flam. Sol. 1: H228 - Water-react. 2: H261 - Self-heat. 1: H251 |
| | EEC: F, R 11-15 |

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

| | |
|----------------------------|---|
| General information | Remove contaminated soaked clothing immediately and dispose of safely. |
| Inhalation | Ensure supply of fresh air. In the event of symptoms seek for medical treatment. |
| Skin contact | When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists. |
| Eye contact | In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice. |
| Ingestion | Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. |

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media**

| | |
|--|--|
| Suitable extinguishing media | Dry sand. Metal fire-ex powder. |
| Extinguishing media that must not be used | Water, Foam. Carbon dioxide. Dry powder. |

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.

59500 Çerkezköy

Date printed 06.06.2013, Revision 26.04.2011

Page 3 / 9

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from all sources of ignition.
Ensure adequate ventilation.
Keep people away and stay on the upwind side.
Use breathing apparatus if exposed to dust.
Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Protect from water.
Take up mechanically.
Avoid raising dust.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Provide vacuuming if dust raised.
Suitable industrial vacuum cleaners or central vacuuming equipment must be used for taking up dust.
Avoid the formation and deposition of dust.
Dust can form an explosive mixture with air.
Keep away from all sources of ignition - Refrain from smoking.
Take precautionary measures against static discharges.
Do not eat, drink, smoke or take drugs at work.
Remove contaminated soaked clothing immediately and dispose of safely.
Clean skin thoroughly after work, apply skin cream.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Keep away from water.
Do not store together with oxidizing agents.
Do not store with combustible materials.
Do not store together with acids.
Keep container tightly closed.
Store in a dry place.
Protect from atmospheric moisture and water.
Keep container in a well-ventilated place.

7.3 Specific end use(s)

See product use, SECTION 1.2

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.
59500 Çerkezköy

Date printed 06.06.2013, Revision 26.04.2011

Page 4 / 9

SECTION 8: Exposure controls / personal protection

Ingredients with occupational
exposure limits to be monitored (GB)

8.1 Control parameters

not applicable

DNEL

| Range [%] | Substance |
|-----------|--|
| | worker, inhalative, > 10 mg/m ³ . |

PNEC

| Range [%] | Substance |
|-----------|--------------------------|
| | sediment, 268 mg/kg dw. |
| | marine water, 0,41 mg/l. |
| | fresh water, 0,41 mg/l. |

8.2 Exposure controls

| | |
|--|---|
| Additional advice on system design | Ensure adequate ventilation on workstation. Generic Exposure Scenarios only in accordance with the identified usages as stipulated in the CSR/CSA. |
| Eye protection | Safety glasses. |
| Hand protection | Nitrile rubber, >480 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information. |
| Skin protection | light protective clothing |
| Other | Avoid contact with eyes and skin. Do not inhale dust. |
| Respiratory protection | Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P2. |
| Thermal hazards | yes |
| Delimitation and monitoring of the environmental exposition | See SECTION 6+7. |

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.
59500 Çerkezköy

Date printed 06.06.2013, Revision 26.04.2011

Page 5 / 9

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--------------------|
| Form | solid >= 149 µm |
| Color | silver-grey |
| Odor | odourless |
| Odour threshold | not applicable |
| pH-value | not applicable |
| pH-value [1%] | not determined |
| Boiling point [°C] | 1107 |
| Flash point [°C] | not applicable |
| Flammability [°C] | > 450 |
| Lower explosion limit | not determined |
| Upper explosion limit | not determined |
| Oxidizing properties | no |
| Vapour pressure/gas pressure [kPa] | 0,1 (621°C) |
| Density [g/ml] | ca. 1,74 |
| Bulk density [kg/m ³] | 500 - 950 |
| Solubility in water | reacts with water |
| Partition coefficient [n-octanol/water] | not applicable |
| Viscosity | not applicable |
| Relative vapour density determined in air | not applicable |
| Evaporation speed | not applicable |
| Melting point [°C] | ca. 650 |
| Autoignition temperature [°C] | not determined |
| Decomposition temperature | not applicable |

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
Reactions with water, with formation of hydrogen.
Contact with water or moisture liberates flammable gases.
Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Water.

10.6 Hazardous decomposition products

Hydrogen

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.

59500 Çerkezköy

Date printed 06.06.2013, Revision 26.04.2011

Page 6 / 9

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute toxicity

LD50, oral, Rat: > 2000 mg/kg (OECD 423) (MgCl₂ * 6H₂O).

| | |
|---|--|
| Serious eye damage/irritation | Slight irritant effect - does not require labelling. |
| Skin corrosion/irritation | Slight irritant effect - does not require labelling. |
| Respiratory or skin sensitisation | Non-sensitizing. |
| Specific target organ toxicity — single exposure | no |
| Specific target organ toxicity — repeated exposure | no |
| Mutagenicity | no |
| Reproduction toxicity | no |
| Carcinogenicity | no |
| General remarks | none |

SECTION 12: Ecological information**12.1 Toxicity**

LC50, (48h), Daphnia magna: 140 mg/l (Pillard et al. 2000).

LC50, (96h), Pimephales promelas: 541 mg/l (Mount et al. 1997).

12.2 Persistence and degradability

| | |
|--|----------------|
| Behaviour in environment compartments | not applicable |
| Behaviour in sewage plant | not applicable |
| Biological degradability | not applicable |

12.3 Bioaccumulative potential

not applicable

12.4 Mobility in soil

not applicable

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

none

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.
59500 Çerkezköy

Date printed 06.06.2013, Revision 26.04.2011

Page 7 / 9

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.

Waste no. (recommended)

060499

Contaminated packaging

Untaminated packaging may be taken for recycling.

Waste no. (recommended)

150102
150104

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID UN 2950 Magnesium Granules, coated 4.3 III

- Classification Code

W2

- Label



- ADR LQ

1 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 2950 Magnesium Granules, coated 4.3 III

- Classification Code

W2

- Label



Marine transport in accordance with IMDG UN 2950 Magnesium Granules, coated 4.3 III

- EMS

F-G, S-O

- Label



- IMDG LQ

1 kg

Air transport in accordance with IATA UN 2950 Magnesium Granules, coated 4.3 III

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.

59500 Çerkezköy

Date printed 06.06.2013, Revision 26.04.2011

Page 8 / 9

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not determined

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

| | |
|--|---|
| EEC-REGULATIONS | 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC |
| TRANSPORT-REGULATIONS | DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013). |
| NATIONAL REGULATIONS (GB): | EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4 |
| - Observe employment restrictions for people | yes |
| - VOC (1999/13/CE) | not applicable |

15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out. Assessment is available from the manufacturer. For more information on the measures of risk management can contact the manufacturer.

SECTION 16: Other information**16.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

Hazard pictograms



Signal word

DANGER

Flam. Sol. 1: H228 Flammable solid.
Water-react. 2: H261 In contact with water releases flammable gases.
Self-heat. 1: H251 Self-heating: may catch fire.

16.2 R-phrases (SECTION 3)

R 11: Highly flammable.
R 15: Contact with water liberates extremely flammable gases.

16.3 Hazard statements (SECTION 3)

H228 Flammable solid.
H261 In contact with water releases flammable gases.
H252 Self-heating in large quantities; may catch fire.

MAGNEZYUM VE METAL TOZLARI END.VE TİC.A.Ş.**59500 Çerkezköy**

Date printed 06.06.2013, Revision 26.04.2011

Page 9 / 9

16.4 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.5 Other information**Customs Tariff**

not determined

Modified position

SECTION 15 been added: no

SECTION 4 been added: When in contact with the skin, clean with soap and water.

SECTION 4 deleted: In case of contact with skin wash off immediately with plenty of water.

Copyright: Chemiebüro®