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

SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

Magnesium raspings

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

1.2.1 Relevant uses

See product information.

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

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 67/548/EEC or 1999/45/EC

Hazard symbols

Highly flammable

Contains: magnesium

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

S-phrases S 7/8: Keep container tightly closed and dry.
S 43.7: In case of fire, use Metal fire-ex powder or dry sand, never use water.

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 mixture.

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 within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventillation.
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 acids.
Do not store with combustible materials.
Do not store together with oxidizing agents.

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

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/m³.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	turnings
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]	~ 1,74
Bulk density [kg/m³]	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]	~ 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

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

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

Uncontaminated 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 1869 Magnesium 4.1 III

- Classification Code F3

- Label

- ADR LQ 5 kg

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN) UN 1869 Magnesium 4.1 III

- Classification Code F3

- Label

Marine transport in accordance with IMDG UN 1869 Magnesium 4.1 III

- EMS F-G, S-G

- Label

- IMDG LQ 5 kg

Air transport in accordance with IATA UN 1869 Magnesium 4.1 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

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.

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.