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1 Identification of the substance / preparation and of the company

Product: Magnesium with more than 50 % magnesium in pellets, turnings or ribbons
Registration number: not applicable
Use: See product information.
Identified use: none
Method of operation: See product information.
Company: ALMAMET GmbH
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 83404 Ainring / GERMANY
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Responsible: Simonavicius@chemiebuero.de

2 Hazards identification

Physico-chemical hazards: See chapter 10 and R-phrases.
Human health dangers: See chapter 11.
Environmental hazards: No particular hazards known.
Other hazards: none
Hazard symbols:



Highly flammable

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

3 Composition / Information on ingredients

| | |
|-------|-----------|
| > 50% | Magnesium |
|-------|-----------|

F, R15-17 CAS: 7439-95-4, EINECS/ELINCS: 231-104-6, EU-INDEX: 012-001-00-3, ECBnr:

Comment on component parts: For the wording of the listed risk phrases refer to section 16.**4 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: In case of contact with skin wash off immediately with plenty of 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.
Advice to doctor: Treat symptomatically.

5 Fire-fighting measures

Suitable extinguishing media: Dry sand.
 Metal fire-ex powder.

Extinguishing media that must not be used:
 Water, Foam.
 Carbon dioxide.
 Dry powder.

Special exposure hazards arising from the substance or preparation itself or combustion products:

Unknown risk of formation of toxic pyrolysis products.

Special protective equipment for firefighters:

Use self-contained breathing apparatus.

Additional information: Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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6 Accidental release measures

- Personal precautions:** 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.
- Environmental precautions:** Do not discharge into the drains/surface waters/groundwater.
- Methods for cleaning up:** Protect from water.
Take up mechanically.
Avoid raising dust.
Dispose of absorbed material in accordance within the regulations.

7 Handling and storage

- Advice on safe handling:** Suitable industrial vacuum cleaners or central vacuuming equipment must be used for taking up dust.
Provide vacuuming if dust raised.
Avoid the formation and deposition of dust.
- Advice on protection against fire and explosion:**
Keep away from all sources of ignition - Refrain from smoking.
Dust can form an explosive mixture with air.
- Requirements for storage rooms and vessels:**
Keep only in original container.
- Advice on storage compatibility:** Keep away from water.
Do not store with combustible materials.
Do not store together with acids and oxidizing agents.
- Further information on storage conditions:**
Keep container tightly closed.
Store in a dry place.
Protect from atmospheric moisture and water.
Keep container in a well-ventilated place.

8 Exposure controls / personal protection

- Additional advice on system design:**
Ensure adequate ventilation on workstation.
- Ingredients with occupational exposure limits to be monitored:**
not applicable
- Respiratory protection:** Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, filter P2.
- Hand protection:** Nitrile, >480 min (EN 374).
- Eye protection:** Safety glasses.
- Skin protection:** light protective clothing
- General protective measures:** Avoid contact with eyes and skin.
Do not inhale dust.
- Hygiene measures:** 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.
- Delimitation and monitoring of the environmental exposition:**
not determined

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9 Physical and chemical properties

| | |
|---|-------------------|
| Form: | solid |
| Color: | silver-grey |
| Odor: | odourless |
| pH-value: | not applicable |
| pH-value [1%]: | not determined |
| Boiling point [°C]: | not determined |
| Flash point [°C]: | not applicable |
| Flammability [°C]: | not determined |
| Lower explosion limit: | not determined |
| Upper explosion limit: | not determined |
| Oxidizing properties: | no |
| Vapour pressure [kPa]: | not determined |
| Density [g/ml]: | ~ 1,74 |
| Density at [°C]: | 20°C |
| 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]: | not determined |
| Autoignition temperature [°C]: | not determined |
| Decomposition temperature: | not applicable |

10 Stability and reactivity

| | |
|--|---|
| 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. |
| Hazardous decomposition products: | Hydrogen. |

11 Toxicological information

| | |
|--------------------------------------|--|
| Acute oral toxicity: | not determined |
| Acute dermal toxicity: | not determined |
| Acute inhalational toxicity: | not determined |
| Irritant effect on eye: | Slight irritant effect - does not require labelling. |
| Irritant effect on skin: | Slight irritant effect - does not require labelling. |
| Sensitization: | not determined |
| Subacute toxicity: | not determined |
| Chronic toxicity: | not determined |
| Mutagenicity: | not determined |
| Reproduction toxicity: | not determined |
| Carcinogenicity: | not determined |
| Experiences made in practice: | none |
| General remarks: | none |

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12 Ecological information


| | |
|---|--------------------------|
| Fish toxicity: | not determinated |
| Daphnia toxicity: | not determinated |
| Behaviour in environment compartments: | not determinated |
| Behaviour in sewage plant: | not applicable |
| Bacteria toxicity: | not determinated |
| Biological degradability: | not applicable |
| COD: | not determinated |
| BOD 5: | not determinated |
| AOX-advice: | No dangerous components. |
| 2006/11/EC: | No dangerous components. |
| General information: | none |

13 Disposal considerations

| | |
|---------------------------------|--|
| Product: | For recycling, consult manufacturer. |
| Contaminated packaging: | Uncontaminated packaging may be taken for recycling. |
| Waste no. (recommended): | 060499 |

14 Transport information

| | |
|---|--|
| Classification according to ADR: | UN 1869 Magnesium Alloys 4.1, III |
| - Classification Code: | F3 |
| - Label: |  |
| - ADR LQ | LQ9: 6kg |
| - ADR 1.1.3.6 (8.6): | Transport category (tunnel restriction code): 3 (E) |

| | |
|--|---|
| Classification according to IMDG: | UN 1869 Magnesium Alloys 4.1 III |
| - EMS: | F-G, S-G |
| - Label: |  |
| - IMDG Limited Quantities: | LQ: 5 kg |


| | |
|--|---|
| Classification according to IATA: | UN 1869 Magnesium Alloys 4.1 III |
| - Label: |  |

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15 Regulatory information

| | |
|----------------------------------|--|
| Exposure scenario: | not applicable |
| Chemical safety report: | not applicable |
| Labelling: | The product is classified and labelled in accordance within EC-directives. |
| Hazard symbols: |  Highly flammable |
| R-phrases: | 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. |
| Special labelling: | none |
| Authorisation, TITEL VII: | not applicable |
| Restrictions, TITEL VIII: | not applicable |
| EEC-REGULATIONS: | 1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006. |
| TRANSPORT-REGULATIONS: | DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2009). |
| NATIONAL REGULATIONS | EH40/2005 Workplace exposure limits with amendments October 2007. |

16 Other informations

| | |
|--|--|
| R-phrases (Chapter 03): | R 15: Contact with water liberates extremely flammable gases. R 17: Spontaneously flammable in air. |
| Observe employment restrictions for people: | yes |
| VOC (1999/13/CE): | not applicable |
| Customs Tariff: | not determinated |

Disclaimer: 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.

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