1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
  - **Trade name:** Magsimal-59 / AlMg5Si2Mn
  - **Relevant identified uses of the substance or mixture and uses advised against**
    No further relevant information available.
    - **Application of the substance / the mixture** Alloy

- **Details of the supplier of the technical information**
  - **Manufacturer/Supplier:** Rheinfelden Alloys GmbH & Co.KG
    Friedrichstraße 80
    D-79618 Rheinfelden
    Tel.: +49 (0) 7623 - 93 0
    www.rheinfelden-alloys.eu
  - **Informing department:** REACH
    Tel.: +49 (0) 7623 - 93 - 465 (Office hours: 08:30 - 15:30)
    reach@rheinfelden-alloys.eu
  - **Emergency telephone number:** Tel.: +49 (0) 7623 - 93 - 375 (24 Std.)

2 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
    The product is not-classified in accordance with the CLP regulation
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
    - **Information concerning particular hazards for human and environment:**
      The product has not to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.
    - **Classification system:**
      The classification is in line with current EC lists.

- **Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
    The product is not labelled according to the CLP regulation.

- **Other hazards**
  - **Results of PBT- and vPvP-assessment:**
    - **PBT:** Not applicable.
    - **vPvP:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
  - **Description:**
    Mixture of the substances listed below including additives not requiring identification.
**Trade name:** Magsimal-59 / AlMg5Si2Mn

### Components

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Reg.nr.</th>
<th>Component</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>7429-90-5</td>
<td>231-072-3</td>
<td>01-211 952 9243-45-X</td>
<td>Aluminium</td>
<td>50-100%</td>
<td>Pyr. Sol. 1, H250; Water-react. 2, H261</td>
</tr>
<tr>
<td>7439-95-4</td>
<td>231-104-6</td>
<td>01-211 953 7203-49-X</td>
<td>Magnesium</td>
<td>2,5-7,5%</td>
<td>Pyr. Sol. 1, H250; Water-react. 1, H260</td>
</tr>
<tr>
<td>7440-21-3</td>
<td>231-130-8</td>
<td>01-211 948 0401-47-X</td>
<td>Silicon</td>
<td>&lt;5,0%</td>
<td>Flam. Sol. 2, H228</td>
</tr>
<tr>
<td>7419-90-5</td>
<td>231-072-3</td>
<td>01-211 944 9803-34-X</td>
<td>Manganese</td>
<td>&lt;1,0%</td>
<td>Pyr. Sol. 1, H250; Water-react. 1, H260</td>
</tr>
<tr>
<td>7440-41-7</td>
<td>231-150-7</td>
<td>01-211 952 9243-45-X</td>
<td>Beryllium</td>
<td>&lt;1,0%</td>
<td>Acute Tox. 3, H30; Acute Tox. 2, H330; Carc. 1B, H350i; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; STOT SE 1, H335; STOT RE 1, H372</td>
</tr>
</tbody>
</table>

**Additional information:**
For the wording of the listed risk phrases refer to the appropriate lists. On request, the composition can also vary slightly, provided that no new product is created.

### 4 Firefighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
  - **For safety reasons unsuitable extinguishing agents:** Water.
- **Special hazards arising from the substance or mixture**
  Can be released in case of fire: Metal oxides
- **Advice for firefighters**
  - **Protective equipment:**
    Do not inhale explosion gases or combustion gases. Wear self-contained breathing apparatus.
Trade name: Magsimal-59 / AlMg5Si2Mn

5 Handling and storage

- **Handling:**
  - **Precautions for safe handling:**
    Avoid contact with eyes and skin.
  - **Information about protection against explosions and fires:**
    Dust can combine with air to form an explosive mixture.
  - **Conditions for safe storage, including any incompatibilities**
    - **Storage:**
      - **Requirements to be met by storerooms and containers:** Protect from moisture.
      - **Information about storage in one common storage facility:**
        Do not store together with acids.
        Do not store together with alkalis (caustic solutions).
        Store away from foodstuffs.
    - **Further information about storage conditions:**
      Not applicable
  - **Specific end use(s):** No further relevant information available.

6 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Solid
      - **Colour:** Silver grey
      - **Odour:** Odourless
      - **Odour threshold:** Not determined.
    - **pH-value:** Not applicable.
  - **Change in condition**
    - **Melting point/Melting range:** 580-618°C
    - **Boiling point/Boiling range:** Not determined.
  - **Flashpoint:** Not determined.
  - **Inflammability (solid, gaseous):** Not determined.
  - **Ignition temperature:** 400°C
    Ignition temperature of dust form
  - **Decomposition temperature:** Not determined.
  - **Self-inflammability:**
    Product is not selfigniting.
  - **Danger of explosion:**
    Product is not explosive.
  - **Critical values for explosion:**
    - **Lower:** Not determined.
    - **Upper:** Not determined.
  - **Vapour pressure**
    Not applicable.

(Contd. on page 4)
**Trade name:** Magsimal-59 / AlMg5Si2Mn

(Contd. From page 3)

- **Density at 20°C:** 2.63 g/cm³
  - **Relative density:** Not determined.
  - **Vapour density:** Not applicable.
  - **Evaporation rate:** Not applicable.

- **Solubility in/Miscibility with Water:** Insoluble

- **Partitions coefficient (n-octanol/water):** Not determined.

- **Viscosity:**
  - **Dynamic:** Not applicable.
  - **Kinematic:** Not applicable.

- **Solvent content:**
  - **Organic solvents:** 0.0%.
  - **Water:** 0.0%.

- **Solids content:** 100%.

- **Other information:** No further relevant information available.

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### 7 Stability and reactivity

- **Reactivity**
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**
    - No decomposition if used according to specifications.
    - Avoid humidity.
  - **Possibility of hazardous reactions**
    - Contact with water releases flammable gases.
    - Reacts with alkali (lyes).
    - Reacts with acids.

- **Conditions to avoid**: No further relevant information available.
- **Incompatible materials**: Keine weiteren relevanten Informationen verfügbar.
- **Hazardous decomposition products**: None in case of intended use and storage in compliance with instructions. Hydrogen.

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### 8 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - The waste code numbers mentioned are recommendations based on the probable use of the product.

(Contd. on page 5)
Trade name: Magsimal-59 / AlMg5Si2Mn

(Contd. from page 4)

- **European waste catalogue**
  
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 00 00</td>
<td>WASTES FROM INORGANIC CHEMICAL PROCESSES</td>
</tr>
<tr>
<td>06 04 00</td>
<td>metal-containing wastes other than those mentioned in 06 03</td>
</tr>
<tr>
<td>06 04 05*</td>
<td>wastes containing other heavy metals</td>
</tr>
</tbody>
</table>

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.