

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

- **Product identifier**
  - **Trade name:** AlZn5In
  - **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.

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• <b>components</b>		
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-211 952 9243-45-X	Aluminium ⚠ Pyr. Sol. 1, H250; Water-react. 2, H261	50-100%
CAS: 7440-66-6 EINECS: 231-175-3 Reg.nr.: 01-211 946 7174-37-X	Zinc ⚠ Pyr. Sol. 1, H250; Water-react. 1, H260 ⚠ Aqu. Chr. 1, H410	2,5-7,5%
CAS: 7440-21-3 EINECS: 231-130-8 Reg.nr.: 01-211 948 0401-47-X	Silicon ⚠ Flam. Sol. 2, H228	<0,5%
CAS: 7440-74-6 EINECS: 231-180-0 Reg.nr.: -	Indium ⚠ Flam. Sol. 2, H228; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332; STOT SE 3, H335	<0,5%

• **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:** CO<sub>2</sub>, 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.

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## 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 determind.
  - **pH-value:** Not applicable.
  - **Change in condition**
    - **Melting point/Melting range:** Not determind.
    - **Boiling point/Boiling range:** Not determind.
  - **Flashpoint:** Not determind.
  - **Inflammability (solid, gaseous):** Not determind.
  - **Ignition temperature:** 400°C  
Ignition temperature of dust form
  - **Decomposition temperature:** Not determind.
  - **Self-inflammability:** Product is not selfigniting.
  - **Danger of explosion:** Product is not explosive.
  - **Critical values for explosion:**
    - **Lower:** Not determind.
    - **Upper:** Not determind.
  - **Vapour pressure** Not applicable.

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<ul style="list-style-type: none"> <li>• <b>Density at 20°C:</b> <ul style="list-style-type: none"> <li>• <b>Relative density</b></li> <li>• <b>Vapour density</b></li> <li>• <b>Evaporation rate</b></li> </ul> </li> </ul>	<p>Not determind. Not determind. Not applicable. Not applicable.</p>
<ul style="list-style-type: none"> <li>• <b>Solubility in/Miscibility with Water</b></li> </ul>	<p>Insoluble</p>
<ul style="list-style-type: none"> <li>• <b>Partitions coefficient (n-octanol/water):</b></li> </ul>	<p>Not determind.</p>
<ul style="list-style-type: none"> <li>• <b>Viscosity:</b> <ul style="list-style-type: none"> <li>• <b>dynamic:</b></li> <li>• <b>kinematic:</b></li> </ul> </li> </ul>	<p>Not applicable. Not applicable.</p>
<ul style="list-style-type: none"> <li>• <b>Solvent content:</b> <ul style="list-style-type: none"> <li>• <b>Organic solvents:</b></li> <li>• <b>Water:</b></li> </ul> </li> </ul>	<p>0,0%. 0,0%.</p>
<ul style="list-style-type: none"> <li>• <b>Solids content:</b></li> </ul>	<p>100%.</p>
<ul style="list-style-type: none"> <li>• <b>Other information:</b></li> </ul>	<p>No further relevant information available.</p>

## 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.

## 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.

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- **European waste catalogue**

06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 04 00	metal-containing wastes other than those mentioned in 06 03
06 04 05*	wastes containing other heavy metals

- **Uncleaned packagings:**

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

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