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1 Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
 Trade name: <u>PowderRange AlSi10Mg</u> 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use Additive Manufacturing. Application of the substance / the mixture Additive Manufacturing. Metal Working. Uses advised against Any Other Uses.
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Carpenter Additive. Dennis Road Widnes Cheshire, WA8 0GU United Kingdom
 Further information obtainable from: Health and Safety Department 1.4 Emergency telephone number: For acute incidents contact the emergency services. For non-acute incidents please use the CHEMTREC number provided. CHEMTREC contact numbers are available 24 hours a day, 7 days a week. Language interpretation services are also available. +(44)-870-8200418
2 Haranda identification
2 Hazards identification
 • 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the GB CLP regulation.
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void Additional information: Product contains: Reportable explosives precursors. Making available, introduction, possession and use
according to Regulation (EU) 2019/1148, Article 9. • 2.3 Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable.

• **vPvB:** Not applicable.

3 Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

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• Dangerous components:		
CAS: 7429-90-5 EINECS: 231-072-3	aluminium substance with a Community workplace exposure limit	50-100%
CAS: 7440-21-3 EINECS: 231-130-8 Reg.nr.: 01-2119480401-47	silicon 🚸 Flam. Sol. 2, H228	≥2.5-≤25%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

• 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- *After skin contact: Generally the product does not irritate the skin.*
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- \cdot 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Special powder for metal fires. Do not use water.
- 5.2 Special hazards arising from the substance or mixture
- Product is not flammable. A high concentration of airborne dusts may form an explosive mixture with air.
- 5.3 Advice for firefighters
- *Protective equipment:* No special measures required.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling

Avoid creating dust where possible. Ensure good dust ventilation during handling. If necessary, use local exhaust ventilation.

Wet mopping or HEPA vacuuming is recommended to clean up any dusts that may be generated during handling and processing.

- · Information about fire and explosion protection: Not determined.
- 7.2 Conditions for safe storage, including any incompatibilities • Storage:
- **Requirements to be met by storerooms and receptacles:** Not determined.
- · Information about storage in one common storage facility: Not required.

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- · Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:

7429-90-5 aluminium

- TWA Long-term value: 10 mg/m³
- Inhalable Dust

7440-21-3 silicon

- WEL Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Respiratory protection:



· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

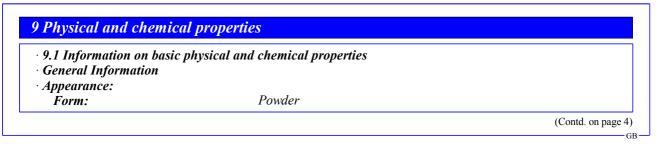
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses

· Body protection: Protective work clothing



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Colour:	Grey	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/freezing point:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Soluble.	
Partition coefficient: n-octanol/wat	ter: Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No further relevant information available.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Metal oxide fumes

11 Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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- \cdot Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- \cdot STOT-single exposure Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes: Not hazardous for water.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

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· UN "Model Regulation":

not regulated

15 Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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.

• *Relevant phrases* H228 Flammable solid.

· Department issuing SDS: Environment protection department.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Sol. 2: Flammable solids – Category 2 • * Data compared to the previous version altered.