

**Safety Data Sheet**

in accordance with Regulation (EC) No 2020/878

Aluminium powder

Revision date: 02.02.2025

Product code: 210160

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Aluminium powder

Substance name: aluminium powder
CAS No: 7429-90-5

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

For mixing casting and molding compounds

1.3. Details of the supplier of the safety data sheet

Company name: R&G Faserverbundwerkstoffe GmbH
Composite Technology
Street: Im Meißel 7 - 13
Place: D-71111 Waldenbuch
Post-office box: 1145
D-71107 Waldenbuch
Telephone: +49 (0)7157 5304-60 Telefax: +49 (0)7157 5304-70
E-mail: info@r-g.de
Contact person: Michael Groß
Internet: www.r-g.de
Responsible Department: Management

1.4. Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg
Tel: +49 (0)761 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

This substance is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements**2.3. Other hazards**

PBT: Not applicable. vPvB: Not applicable.

Other hazards which do not result in classification: May be flammable.

SECTION 3: Composition/information on ingredients**3.1. Substances****Chemical characterization**

Substance with one component

Relevant ingredients

CAS No	Chemical name	Index No	REACH No	Quantity
	EC No			
	Classification (GB CLP Regulation)			
7429-90-5	aluminium powder			80 <= 100 %
	231-072-3			

Full text of H and EUH statements: see section 16.



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Further Information

Contains no other ingredients which, to the best of the supplier's current knowledge, are classified and contribute to the classification of the substance and would therefore need to be listed in this section.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

After inhalation

fresh air or oxygen supply If breathing is absent or irregular or if respiratory arrest occurs, artificial respiration or oxygen artificial respiration or oxygen administration by trained personnel. Consult a doctor when complaints persist.

After contact with skin

Clean skin thoroughly with soap and water or use an approved skin cleanser. Do NOT use solvents or thinners. Wash off contaminated area with water.

After contact with eyes

Immediately flush eyes with plenty of water and occasionally lift upper and lower eyelids. Check for contact lenses and remove if present. Seek medical attention if irritation occurs.

After ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

The product is not classified as hazardous according to Regulation (EC) 1272/2008 and its amendments.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry sand.

Unsuitable extinguishing media

Water. Carbon dioxide (CO₂). Foam.

5.3. Advice for firefighters

Flame-retardant clothes. Wear filter mask/respiratory equipment.

Additional information

Do not allow extinguishing water to enter drains or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid inhalation of dust.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In the event of pollution of rivers, lakes or sewage pipes in accordance with local laws inform the relevant authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up

Spilled material with non-combustible absorbing material (eg sand, earth, vermiculite) Define and collect for disposal according to local regulations in the designated containers. Preferably with a detergent, avoid use of organic solvents.

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Other information

Remove carefully with a mechanical means (e.g. with a clean PE shovel). Do not rinse down with water.

6.4. Reference to other sections

See section 1 for emergency contact information.

Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep receptacles tightly sealed.

Advice on protection against fire and explosion

Keep away from ignition sources and naked flames. Store product in sealed receptacles. In the original container at room temperature.

Advice on general occupational hygiene

Eating, drinking and smoking must be prohibited in areas where this substance is used, stored or processed. Persons handling the substance must wash their hands and faces before eating. Wash hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering the eating area. See section 8 for further details on hygiene measures.

Further information on handling

Use only antistatically equipped (spark-free) tools.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in well sealed receptacles at a cool, dry location. Keep separate from other hazardous and incompatible substances. Keep opened receptacles upright to prevent leakage. In the original container at room temperature. Keep away from ignition sources and naked flames.

Hints on joint storage

Keep away from oxidising agents. Keep away from: acid. alkalis, diluted.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7429-90-5	Aluminium metal, inhalable dust	-	10		TWA (8 h)	WEL
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7429-90-5	aluminium powder			
Worker DNEL, long-term		inhalation	local	3,72 mg/m ³
Worker DNEL, long-term		inhalation	systemic	3,72 mg/m ³
Consumer DNEL, long-term		oral	systemic	3,95 mg/kg bw/day

Additional advice on limit values

No exposure limit value is known.

8.2. Exposure controls



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Appropriate engineering controls

Provide adequate ventilation/vapour extraction at the workplace.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety goggles should be worn if there is a risk of exposure. Use eye protection according to EN 166 should be used.

Hand protection

Wear protective gloves to avoid drying of the skin. Apply a skin protection cream before handling the product. Wash hands and other exposed skin areas with mild soap and water. Protective gloves approved e.g. under EN 374 provide adequate protection against possible skin contact.

Environmental exposure controls

Do not allow to enter the sewerage system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Powder	
Colour:	silver grey	
Odour:	neutral	
Melting point/freezing point:		660 °C
Density:		2,702 g/cm ³
Relative density:		2,702

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature	
Solid:	590 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosion risk in case of reaction with:
Water, with formation of hydrogen gas
Oxidizing agents, acids, alkalis, with development of heat and hydrogen gas
Sulphur (in reaction with zinc)

10.2. Chemical stability

stable under normal conditions

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Keep away from heat and ignition sources.

10.5. Incompatible materials

Water.
reaction with strong acids, alkaline substances, amines, and oxidising agents to form hydrogen

10.6. Hazardous decomposition products

releases ignitable hydrogen gas Under normal conditions of storage and use, no hazardous decomposition products should be formed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation



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Acute toxicity

The product has not been tested. Classification according to Regulation (EC) No. 1272/2008

Irritation and corrosivity

The product has not been tested. Classification according to Regulation (EC) No. 1272/2008

11.2. Information on other hazards

Other information

The product is not classified as hazardous according to Regulation (EC) 1272/2008 and its amendments.

Exposure to airborne concentrations above the legal or recommended limits may cause irritation to the nose, throat and lungs.

SECTION 12: Ecological information

12.3. Bioaccumulative potential

not determined

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste generation should be avoided or minimised wherever possible. Disposal of this product and its solutions and by-products must be carried out at all times in compliance with environmental protection requirements and waste disposal legislation and the requirements of local authorities. Surplus and products not suitable for recycling should be disposed of through a recognised waste disposal company. Do not discharge untreated waste into the sewerage system unless all applicable regulations of the authorities are complied with.

Contaminated packaging

Waste generation should be avoided or minimized wherever possible. Packaging waste should be recycled. Incineration or landfill should only be considered if recycling is not feasible. Waste and containers must be disposed of in a safe manner. Take care when handling empty containers that have not been cleaned or rinsed. Empty containers and liners may contain product residues. Avoid dispersal and run-off of released material and contact with the soil, water bodies, drains and sewers.

SECTION 14: Transport information

Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

National regulatory information

SECTION 16: Other information

Changes



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This data sheet contains changes from the previous version in section(s): 1,15,16.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.