

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Aluminium powder

Print date: 04.03.2013

Product code: 210160-GHS-2013

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

#### Identification of the substance or mixture

Aluminium powder

#### Company/undertaking identification

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:	+49-7157-530460	Telefax: +49-7157-530470
e-mail:	info@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	
1.4. Emergency telephone number:	poison information centre	

### 2. Hazards identification

#### Classification

GHS: Hazard categories:  
Flammable liquid: Flam. Liq. 2  
Hazard Statements:  
Highly flammable liquid and vapour.

### 3. Composition/information on ingredients

Chemical characterization ( Mixture )

### 4. First aid measures

#### After inhalation

fresh air or oxygen supply Consult a doctor when complaints persist.

#### After contact with skin

Wash off contained area with water.

#### After contact with eyes

If the product comes into contact with the eyes, immediately rinse the open eyes with copious amounts of water for at least ten minutes. Afterwards consult an eye specialist.

#### Advice to doctor

unknown

### 5. Fire-fighting measures

#### Suitable extinguishing media

Dry sand.

#### Extinguishing media which must not be used for safety reasons

Water. Carbon dioxide (CO<sub>2</sub>). Foam.

#### Special protective equipment for fire-fighters

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

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### 6. Accidental release measures

#### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment. Dispose of contaminated material as § 13 waste.

#### Methods for cleaning up/taking up

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

### 7. Handling and storage

#### 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.

##### Further information on handling

Only use anti-static equipped (spark-free) tools.

#### Storage

##### Requirements for storage rooms and vessels

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

##### Advice on storage compatibility

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

### 8. Exposure controls/personal protection

#### Exposure limit values

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### 8.2. Exposure controls

### 9. Physical and chemical properties

#### General information

Physical state: Powder  
Colour: silver grey  
Odour: neutral

#### Important health, safety and environmental information

Test method

#### Changes in the physical state

Melting point: 660 °C  
Boiling point: 2500 °C

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Flash point: 750 °C  
Lower explosion limits: 30  
Density (at 20 °C): 2,7 g/cm<sup>3</sup>  
Water solubility: insoluble in water

### 9.2. Other information

Auto-ignition temperature: 550  
Solid:  
Gas:  
Ignition temperature: > 600 °C

## 10. Stability and reactivity

### 10.4. Conditions to avoid

Keep away from heat and ignition sources.

### Materials to avoid

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

### 10.6. Hazardous decomposition products

releases ignitable hydrogen gas

## 11. Toxicological information

### Acute toxicity

Oral LD50 2000 mg/kg (rat)  
Inhalativ LC50/4 h 888mg/l (rat)

### Irritation and corrosivity

No irritation

## 12. Ecological information

### Mobility

not determined

### 12.3. Bioaccumulative potential

not determined

### 12.6. Other adverse effects

unknown

## 13. Disposal considerations

### Waste disposal number of waste from residues/unused products

120104 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; non-ferrous metal dust and particles

### Waste disposal number of used product

120104 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; non-ferrous metal dust and particles

### Waste disposal number of contaminated packaging

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120104 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; non-ferrous metal dust and particles

### 14. Transport information

#### Land transport (ADR/RID)

14.1. UN number: none / none

Warning plate

#### **Other applicable information (land transport)**

Lt. EG-SDB kein Gefahrgut

#### Marine transport (IMDG)

#### **Other applicable information (marine transport)**

Lt. EG-SDB kein Gefahrgut

#### Air transport (ICAO)

#### **Other applicable information (air transport)**

Lt. EG-SDB kein Gefahrgut

### 15. Regulatory information

#### Labelling

#### GHS labelling

Signal word: Danger

Pictograms: flame



#### **Hazard statements**

H225 Highly flammable liquid and vapour.

#### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P370+P378 In case of fire: Use ... for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container to ....

#### National regulatory information

#### **Additional information**

EU-Stoffrichtlinie RL 67/548/EWG

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### 16. Other information

#### Full text of H statements referred to under Sections 2 and 3

H225 Highly flammable liquid and vapour.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*