

according to Regulation (EC) No 1907/2006			
	Aluminum, powder, 250 g		
Print date: 14.04.2015	Product code: 9991044		Page 1 of 8
SECTION 1: Identification of t	he substance/mixture and of the company/	undertaking	
1.1. Product identifier			
Aluminum, powde	er, 250 g		
CAS No:	7429-90-5		
Index No:	013-002-00-1		
EC No:	231-072-3		
	he substance or mixture and uses advised agai	nst	
Use of the substance/mixture			
Laboratory chemi			
1.3. Details of the supplier of the	e safety data sheet		
Seller			
Company name:	CONATEX-DIDACTIC Lehrmittel GmbH		
Street:	Im Forstgarten 1		
Place:	D-66459 Kirkel		
Internet:	www.conatex.com		
Supplier			
Company name:	Carbolution Chemicals GmbH		
Street:	Im Stadtwald, Gebäude A1.2		
Place:	D-66123 Saarbrücken		
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232	
e-mail:	michael.bauer@carbolution-chemicals.de		
Internet:	www.carbolution-chemicals.de		
1.4. Emergency telephone	+49 (0)681 302-71232		
<u>number:</u>			
SECTION 2: Hazards identific	ation		
2.1. Classification of the substar			
-	irective 67/548/EEC or 1999/45/EC		
	ger: F - Highly flammable		
R phrases: Highly flammable			
	Ir liberates extremely flammable gases.		
	egulation (EC) No. 1272/2008 [CLP]		
Hazard categorie			
	ture which in contact with water emits flammable	gas: Water-react. 2	
Flammable solid:			

Hazard Statements:

In contact with water releases flammable gases.

Flammable solid.

### 2.2. Label elements

Hazardous components which must be listed on the label aluminium powder (stabilised)

	•	•	,
Signal word:			Danger
Pictograms:			GHS02



according to Regulation (EC) No 1907/2006

Aluminum, powder, 250 g				
Print date: 14.04.2015	Product code: 9991044	Page 2 of 8		
Hazard statements				
H228	Flammable solid.			
H261	In contact with water releases flammable gases.			
Precautionary statemer	nts			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
P370+P378	In case of fire: Use water to extinguish.			
P402+P404	Store in a dry place. Store in a closed container.			
SECTION 3: Composition/information on ingredients				
3.1. Substances				
Sum formula:	AI			

# Hazardous components

Molecular weight:

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
231-072-3	aluminium powder (stabilised)	100 %
7429-90-5	F - Highly flammable R11-15	
013-002-00-1	Water-react. 2, Flam. Sol. 1; H261 H228	

Full text of R-, H- and EUH-phrases: see section 16.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

### After ingestion

Rinse mouth immediately and drink plenty of water.

### 4.3. Indication of any immediate medical attention and special treatment needed

26,98

No data available

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

D -powder, Dry sand, Cement.



according to Regulation (EC) No 1907/2006

### Aluminum, powder, 250 g

Print date: 14.04.2015

Product code: 9991044

Page 3 of 8

### Unsuitable extinguishing media

Water, Foam.

### 5.2. Special hazards arising from the substance or mixture

Combustible. Vapours can form explosive mixtures with air. Danger of spontaneous combustion.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

### 6.3. Methods and material for containment and cleaning up

Take up carefully when dry. Treat the recovered material as prescribed in the section on waste disposal.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with water. Never add water to this product.

### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Do not allow contact with air. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container dry. Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Advice on storage compatibility

Do not store together with: Material, oxygen-rich, oxidizing. Pyrophoric or self-heating substances.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### 8.2. Exposure controls

#### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166



Test method

#### according to Regulation (EC) No 1907/2006

### Aluminum, powder, 250 g

Print date: 14.04.2015

Product code: 9991044

Page 4 of 8

#### Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

### Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: Colour:	solid silver grey	
Odour:	No data available	
pH-Value:		No data available

pri-value.	
Changes in the physical state	
Melting point:	660 °C
Initial boiling point and boiling range:	2519 °C
Sublimation point:	No data available
Softening point:	No data available
Flash point:	No data available
Flammability	
Solid:	No data available
Gas:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Ignition temperature:	400 °C
Auto-ignition temperature	
Solid:	No data available
Gas:	No data available
Vapour pressure:	No data available
Vapour pressure:	No data available
Density (at 20 °C):	2,7 g/cm³
Water solubility:	No data available
Partition coefficient:	No data available
Viscosity / dynamic:	No data available
Viscosity / kinematic:	No data available
Flow time:	No data available
Vapour density:	No data available
Evaporation rate:	No data available
Solvent separation test:	No data available
Solvent content:	No data available



according to Regulation (EC) No 1907/2006

### Aluminum, powder, 250 g

Print date: 14.04.2015

Product code: 9991044

Page 5 of 8

Solid content:

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Ignition hazard. Vapours can form explosive mixtures with air. No data available

#### 10.5. Incompatible materials

Protect from moisture. Never add water to this product. Keep away from: Material, oxygen-rich, oxidizing.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

Toxicological data are not available.

#### Acute toxicity

Toxicological data are not available.

#### Irritation and corrosivity

Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin. Frequently or prolonged contact with skin may cause dermal irritation. Risk of serious damage to eyes.

#### Sensitising effects

No data available

### Severe effects after repeated or prolonged exposure

No data available

#### Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

This mixture is classified as hazardous according to 1999/45/EC.

### Practical experience

### Observations relevant to classification

No data available

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

Decomposes in contact with water.

### 12.3. Bioaccumulative potential

No data available



according to Regulation (EC) No 1907/2006

### Aluminum, powder, 250 g

Print date: 14.04.2015

Product code: 9991044

Page 6 of 8

#### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

#### **Further information**

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### Advice on disposal

160506

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

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

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

### Contaminated packaging

Avoid contact with water. Dispose of waste according to applicable legislation.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1309
14.2. UN proper shipping name:	ALUMINIUM POWDER, COATED
14.3. Transport hazard class(es):	4.1
14.4. Packing group:	111
Hazard label:	4.1
Classification code:	F3
Limited quantity:	5 kg
Transport category:	3
Hazard No:	40
Tunnel restriction code:	E
Other applicable information (land tra	nsport)
E1	
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 1309



### according to Regulation (EC) No 1907/2006

	Aluminum, powder, 250 g		
Print date: 14.04.2015	Product code: 9991044	Page 7 of 8	
14.2. UN proper shipping name:	ALUMINIUM POWDER, COATED		
<u>14.3. Transport hazard class(es):</u>	4.1		
14.4. Packing group:	III		
Hazard label: Classification code:	4.1 F3		
Limited quantity:	F3 5 kg		
Other applicable information (inland wa	-		
E1			
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN 1309		
14.2. UN proper shipping name:	ALUMINIUM POWDER, COATED		
14.3. Transport hazard class(es):	4.1		
14.4. Packing group:	III		
Hazard label:	4.1		
Special Provisions: Limited guantity:	223 5 kg		
Emilied quantity. EmS:	5 kg F-G, S-G		
Other applicable information (marine tr	ansport)		
E1 Air transport (ICAO)			
<u>14.1. UN number:</u>	UN 1309		
14.2. UN proper shipping name:	ALUMINIUM POWDER, COATED		
14.3. Transport hazard class(es):	4.1		
14.4. Packing group:	III		
Hazard label:	4.1		
Special Provisions: Limited quantity Passenger:	A3 10 kg		
IATA-packing instructions - Passenger:	10 kg 446		
IATA-max. quantity - Passenger:	25 kg		
IATA-packing instructions - Cargo:	449		
IATA-max. quantity - Cargo:	100 kg		
Other applicable information (air transp E1	oort)		
: Y443			
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	no		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
EU regulatory information			
Additional information			
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)			
National regulatory information			
Water contaminating class (D):	Water contaminating class (D): not water contaminating		



according to Regulation (EC) No 1907/2006

# Aluminum, powder, 250 g

Print date: 14.04.2015

Product code: 9991044

Page 8 of 8

### Relevant R-phrases (Number and full text)

- Highly flammable.
  Contact with water
  - Contact with water liberates extremely flammable gases.

### Relevant H- and EUH-phrases (Number and full text)

- H228 Flammable solid.
- H261 In contact with water releases flammable gases.