

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

---

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

#### 1.1 Product identifier

Trade name : STANDART PCR 181 Aluminium Powder  
Product code : 049155F20

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Colouring agents, pigments

#### 1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH  
Guntersthal 4  
91235 Hartenstein  
  
Telephone : +499152770  
  
Telefax : +499152777008  
  
E-mail address of person responsible for the SDS : msds.eckart@altana.com

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)  
Call and response in your language is possible.  
Contract no.: ECKART29003-NCEC.

---

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1      H228: Flammable solid.

**Information concerning particular hazards for human and environment:** : Please refer to our website for further important safety instructions for handling aluminium powder:  
[http://www.eckart.net/fileadmin/eckart/Service/GDA\\_Alupulver\\_Safety\\_engl.pdf](http://www.eckart.net/fileadmin/eckart/Service/GDA_Alupulver_Safety_engl.pdf)

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

|                          |   |   |
|--------------------------|---|---|
| Hazard pictograms        | : |   |
| Signal word              | : | Danger  |
| Hazard statements        | : | H228      Flammable solid.  |
| Precautionary statements | : | <b>Prevention:</b><br>P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P240      Ground and bond container and receiving equipment.<br>P241      Use explosion-proof electrical/ ventilating/ lighting equipment.<br>P280      Wear protective gloves/ protective clothing/ eye protection/ face protection.<br><b>Response:</b><br>P370 + P378      In case of fire: Use for extinction: Special powder for metal fires.<br>P370 + P378      In case of fire: Use for extinction: Dry sand. |

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name                 | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number      | Classification<br>REGULATION (EC)<br>No 1272/2008 | Concentration<br>(% w/w) |
|-------------------------------|--|---|--------------------------|
| aluminium powder (stabilised) | 7429-90-5<br>231-072-3<br>013-002-00-1<br>01-2119529243-45 | Flam. Sol. 1; H228                                | >= 50 - <= 100           |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice      :      Move the victim to fresh air.  
  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

---

- Do not leave the victim unattended.
- If inhaled : Remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

None known.

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

This information is not available.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Dry sand  
Special powder against metal fire
- Unsuitable extinguishing media : ABC powder  
Carbon dioxide (CO<sub>2</sub>)  
Water  
Foam
- High volume water jet

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

- Specific hazards during firefighting : Contact with water liberates extremely flammable gas (hydrogen).

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : For safety reasons in case of fire, cans should be stored
-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 25.02.2022          |
| 2.2     | 29.06.2021     | 102000000283 | Date of first issue: 03.01.2014 |

---

separately in closed containments.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use a water spray to cool fully closed containers.

---

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Evacuate personnel to safe areas.  
Avoid dust formation.  
Remove all sources of ignition.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Use mechanical handling equipment.  
Do not use a vacuum cleaner.

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

---

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust.  
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.  
Store away from heat.

For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

Advice on protection against fire and explosion : Use explosion-proof equipment. During processing, dust may form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. When transferring from one container to another apply earthing measures and use conductive hose material.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

No smoking. Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further information on storage stability : Keep in a dry place. No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                    | CAS-No.   | Value type (Form of exposure) | Control parameters   | Basis   |
|-------------------------------|---|-------------------------------|----------------------|---------|
| aluminium powder (stabilised) | 7429-90-5   | TWA (Inhalable)               | 10 mg/m <sup>3</sup> | GB EH40 |
| Further information           | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are |                               |                      |         |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version  
2.2

Revision Date:  
29.06.2021

SDS Number:  
102000000283

Print Date: 25.02.2022  
Date of first issue: 03.01.2014

|                           |   |                           |          |         |
|---------------------------|---|---------------------------|----------|---------|
|                           | exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.  |                           |          |         |
|                           | <table border="1"><tr><td>TWA (Respirable fraction)</td><td>4 mg/m3</td><td>GB EH40</td></tr></table>   | TWA (Respirable fraction) | 4 mg/m3  | GB EH40 |
| TWA (Respirable fraction) | 4 mg/m3   | GB EH40                   |          |         |
| Further information       | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.  |                           |          |         |
|                           | <table border="1"><tr><td>TWA (inhalable dust)</td><td>10 mg/m3</td><td>GB EH40</td></tr></table>   | TWA (inhalable dust)      | 10 mg/m3 | GB EH40 |
| TWA (inhalable dust)      | 10 mg/m3  | GB EH40                   |          |         |
| Further information       | For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |                           |          |         |
|                           | <table border="1"><tr><td>TWA (Respirable dust)</td><td>4 mg/m3</td><td>GB EH40</td></tr></table>   | TWA (Respirable dust)     | 4 mg/m3  | GB EH40 |
| TWA (Respirable dust)     | 4 mg/m3   | GB EH40                   |          |         |
| Further information       | For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure  |                           |          |         |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version  
2.2

Revision Date:  
29.06.2021

SDS Number:  
102000000283

Print Date: 25.02.2022  
Date of first issue: 03.01.2014

|                     |   |                       |                                |         |
|---------------------|---|-----------------------|--------------------------------|---------|
|                     | to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.  |                       |                                |         |
| silicon dioxide     | 7631-86-9   | TWA (inhalable dust)  | 6 mg/m <sup>3</sup> (Silica)   | GB EH40 |
| Further information | For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |                       |                                |         |
|                     |   | TWA (Respirable dust) | 2.4 mg/m <sup>3</sup> (Silica) | GB EH40 |
| Further information | For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure  |                       |                                |         |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version  
2.2

Revision Date:  
29.06.2021

SDS Number:  
102000000283

Print Date: 25.02.2022  
Date of first issue: 03.01.2014

to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                | End Use   | Exposure routes | Potential health effects   | Value                  |
|-------------------------------|-----------|-----------------|----------------------------|------------------------|
| aluminium powder (stabilised) | Workers   | Inhalation      | Long-term local effects    | 3.72 mg/m <sup>3</sup> |
|                               | Consumers | Oral            | Long-term systemic effects | 3.95 mg/kg             |
|                               | Workers   | Inhalation      | Long-term systemic effects | 3.72 mg/m <sup>3</sup> |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                | Environmental Compartment | Value       |
|-------------------------------|---------------------------|-------------|
| aluminium powder (stabilised) | Fresh water               | 0.0749 mg/l |
|                               | clarification plant       | 20 mg/l     |

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Face-shield  
Tightly fitting safety goggles

Hand protection  
Material : Leather  
Glove length : Long sleeve gloves

Remarks : Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes.

Dust impervious protective suit  
Choose body protection according to the amount and



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

---

concentration of the dangerous substance at the work place.

Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
Breathing apparatus with filter.  
P1 filter

### Environmental exposure controls

Water : The product should not be allowed to enter drains, water courses or the soil.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : silver

Odour : odourless

Odour Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Melting point/freezing point : 660 °C

Boiling point/boiling range : 2,467 °C

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Auto-ignition temperature : 340 °C

Smoldering temperature : 230 °C

Decomposition temperature : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Upper explosion limit / Upper flammability limit : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

---

Lower explosion limit / Lower flammability limit : 30 g/m<sup>3</sup>

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 2.5 g/cm<sup>3</sup>

Bulk density : No data available

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

### 9.2 Other information

No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version  
2.2

Revision Date:  
29.06.2021

SDS Number:  
102000000283

Print Date: 25.02.2022  
Date of first issue: 03.01.2014

---

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents  
Water

### 10.6 Hazardous decomposition products

Contact with water or humid air : This information is not available.

Thermal decomposition : This information is not available.

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Components:

#### **aluminium powder (stabilised):**

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

#### **Skin corrosion/irritation**

Not classified based on available information.

#### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

---

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

#### **Product:**

Remarks: No data available

---

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

#### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### **12.6 Other adverse effects**

#### **Product:**

Additional ecological information : No data available

---

## **SECTION 13: Disposal considerations**

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles  
European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust) containing hazardous substances

### **13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

---

Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

---

### SECTION 14: Transport information

#### 14.1 UN number

ADR : UN 1309  
IMDG : UN 1309  
IATA : UN 1309

#### 14.2 UN proper shipping name

ADR : ALUMINIUM POWDER, COATED  
IMDG : ALUMINIUM POWDER, COATED  
IATA : Aluminium powder, coated

#### 14.3 Transport hazard class(es)

ADR : 4.1  
IMDG : 4.1  
IATA : 4.1

#### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : F3  
Hazard Identification Number : 40  
Labels : 4.1  
Tunnel restriction code : (E)

**IMDG**  
Packing group : II  
Labels : 4.1  
EmS Code : F-G, S-G  
Remarks : IMDG Code segregation group 15 - Powdered metals

#### **IATA (Cargo)**

Packing instruction (cargo aircraft) : 448  
Packing instruction (LQ) : Y441  
Packing group : II  
Labels : Flammable Solid

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

Version 2.2      Revision Date: 29.06.2021      SDS Number: 102000000283      Print Date: 25.02.2022  
Date of first issue: 03.01.2014

---

### IATA (Passenger)

Packing instruction (passenger aircraft) : 445  
Packing instruction (LQ) : Y441  
Packing group : II  
Labels : Flammable Solid

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

---

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

### 15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances.

---

## SECTION 16: Other information

### Full text of H-Statements

H228 : Flammable solid.

### Full text of other abbreviations

Flam. Sol. : Flammable solids  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART PCR 181 Aluminium Powder

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 25.02.2022          |
| 2.2     | 29.06.2021     | 102000000283 | Date of first issue: 03.01.2014 |

---

Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN