Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025

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

### **1.1 Product identifier**

Trade name	:	STANDART PCS 1500 Aluminium Powder
Material number	:	040628EL0

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

This information is not available.

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

Company	: ECKART GmbH
	Guentersthal 4
	91235 Hartenstein
Telephone	: +499152770
Telefax	: +499152777008
E-mail address	: msds.eckart@altana.com
Responsible/issuing person	

### 1.4 Emergency telephone number

NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

### **SECTION 2: Hazards identification**

#### **GHS** Classification

: Flammable solids, Category 1, H228

Page 1 / 18	10200000283	A member of <b>C ALTANA</b>
-------------	-------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



# STANDART PCS 1500 Aluminium Powder

rsion 3.0	Revision Date 09.01.2025	Print Date 14.01.2025
Please refer to our website	<b>rticular hazards for human and envir</b> or further important safety instructions fo nin/eckart/Service/GDA_Alupulver_Safe	or handling aluminium powder:
GHS-Labelling		
Symbol(s)		
Signal word	: Danger	
Hazard statements	: H228: Flammable solid.	
Precautionary statements	P241 Use explosion-proof electrequipment. P280 Wear protective gloves/ protection/ face protection/ hearing <b>Response:</b>	No smoking. er and receiving equipment. rical/ ventilating/ lighting rotective clothing/ eye g protection. e for extinction: Special

Hazardous components which must be listed on the label

:

## **SECTION 3: Composition/information on ingredients**

Substance No.

### Hazardous components

Page 2 / 18	10200000283	A member of <b>C ALTANA</b>
-------------	-------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025

		Concentration[%]
29-90-5 Flam. 1-072-3	Sol.;1;H228	50 - 100
2	ECS-No. labell 9-90-5 Flam.	IECS-No. labelling 19-90-5 Flam. Sol.;1;H228

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

### 4.1 Description of first aid measures

General advice	<ul> <li>Move the victim to fresh air.</li> <li>Move out of dangerous area.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul>
lf inhaled	<ul> <li>Remove to fresh air.</li> <li>If unconscious, place in recovery position and seek medical advice.</li> <li>If symptoms persist, call a physician.</li> </ul>
In case of skin contact	: Wash off immediately with soap and plenty of water. If on clothes, remove clothes.
In case of eye contact	<ul> <li>Flush eyes with water as a precaution.</li> <li>Remove contact lenses.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>
If swallowed	<ul> <li>Keep respiratory tract clear.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If symptoms persist, call a physician.</li> </ul>

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

This information is not available.

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

This information is not available.

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **STANDART PCS 1500 Aluminium Powder**

Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025

## **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 (CO2), Water, Foam
		High volume water jet
5.2 Special hazards arising from t	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 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

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

Page 4 / 18	10200000283	A member of <b>C ALTANA</b>
-------------	-------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



# **STANDART PCS 1500 Aluminium Powder**

Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025

### 6.2 Environmental precautions

If the product contaminates rivers and lakes or drains inform respective authorities.
---

This information is not available.

### 6.3 Methods and materials for containment and 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. Advice on protection against : Use explosion-proof equipment. During processing, dust may fire and explosion 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.

Page 5 / 18         10200000283         A member of C ALTANA
--



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0		Revision Date 09.01.2025	Print Date 14.01.2025
		Provide appropriate exhaust ventilation is formed. Keep away from open flames sources of ignition.	
Hygiene measures	:	Wash hands before breaks and at the e	end of workday.
7.2 Conditions for safe storage,	incl	uding any incompatibilities	
Requirements for storage areas and containers	:	Earthing of containers and apparatuses with water liberates extremely flammab explosion-proof equipment. Store in orig containers tightly closed in a cool, well- away from sources of ignition - No smo closed when not in use.	le gas (hydrogen) Use ginal container. Keep ventilated place. Keep
		No smoking. Keep container tightly closventilated place. Electrical installations must comply with the technological safe	/ working materials
Further information on storage conditions	:	Protect from humidity and water.	
Advice on common storage	:	Do not store together with oxidizing and Never allow product to get in contact wi storage. Keep away from oxidizing age and strongly acid materials in order to a reactions.	th water during nts, strongly alkaline
Other data	:	Keep in a dry place. No decomposition as directed.	if stored and applied

## 7.3 Specific end use(s)

This information is not available.

Page 6 / 18	10200000283	A member of <b>C ALTANA</b>



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

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

### 8.1 Control parameters

### Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further inform	ation		ompliance with the one risk of harming the	•	cal tolerance
aluminium	7429-90-5	AGW (Alveolate 1,25 mg/m3 2021-07-02 DE TRGS 900 fraction)			DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information			ompliance with the one risk of harming the	-	cal tolerance
silicon dioxide	7631-86-9	AGW (Inhalable fraction)	4 mg/m3	2013-09-19	DE TRGS 900
Further information		place dangerous amorphous silica manufactured si compliance with	sion for the review of s for the health (MA a, including pyrogen lica (precipitated sil the OEL and biologing the unborn child	K-commission). hic silica and in v ica, silicagel).W	Colloidal vet processes hen there is

### United States of America (USA):

Page 7 / 18		1020	00000283	A membe	er of C ALTANA	1	
	aluminium	7429-90-5	TWA	5 mg/m3	2013-10-08		
	aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01		
	Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis	



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0

Page

Revision Date 09.01.2025

Print Date 14.01.2025

		(Respirable)	15 / 0	00/0.07.0/	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01	
aluminium	7429-90-5	TWA (total)	10 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2012-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26	
aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2008-01-01	
aluminium	7429-90-5	TWA	5 mg/m3	2005-09-01	
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2013-03-01	
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02	
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02	
aluminium	7429-90-5	TWA (powder)	5 mg/m3	1989-01-19	
silicon	7631-86-9	TWA (Dust)	20 Million particles	2012-07-01	
/ 18		1020	00000283	A membe	r of <b>C ALTANA</b>



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

dioxide			per cubic foot		
silicon dioxide	7631-86-9	TWA (Dust)	80 mg/m3 / %SiO2	2012-07-01	
silicon dioxide	7631-86-9	TWA	6 mg/m3	2013-10-08	
silicon dioxide	7631-86-9	PEL	6 mg/m3	2014-11-26	

### 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 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

Page 9 / 18	10200000283	A member of 🜔 ALTANA
-------------	-------------	----------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

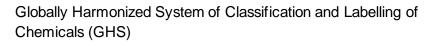
Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025
General advice	<ul> <li>The product should not be allowed to courses or the soil.</li> <li>Prevent product from entering drains. Prevent further leakage or spillage if a lift the product contaminates rivers and respective authorities.</li> </ul>	safe to do so.

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

## 9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: silver
Odour	: characteristic
рН	: substance/mixture is non-soluble (in water)
Melting point/range	: >600 °C
Boiling point/boiling range	: No data available
Flash point	: No data available
Bulk density	: No data available
Flammability (solid, gas)	: The substance or mixture is a flammable solid with the category 1.
Smoldering temperature	: >230 °C
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: 30 g/m3
Vapour pressure	: No data available
Density	: 2,5 g/cm3 (ca. )

Page 10 / 18	10200000283	A member of <b>C ALTANA</b>



# STANDART PCS 1500 Aluminium Powder

Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025

Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: 340 °C
Thermal decomposition	: 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

Page 11 / 18	10200000283	A member of <b>C ALTANA</b>
--------------	-------------	-----------------------------





Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025
Conditions to avoid 10.5 Incompatible materials	: Heat, flames and sparks.	
Materials to avoid	: Acids Bases Oxidizing agents	

#### 10.6 Hazardous decomposition products

Other information

: No data available

Water

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

No data available

#### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitisation

No data available

### Carcinogenicity

No data available

### Toxicity to reproduction/fertility

No data available

Page 12 / 18	10200000283	A member of <b>C ALTANA</b>
--------------	-------------	-----------------------------





# STANDART PCS 1500 Aluminium Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

### Reprod.Tox./Development/Teratogenicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Aspiration toxicity

No data available

### **Further information**

### **Product**

No data available

## **SECTION 12: Ecological information**

### 12.1 Toxicity

No data available

## 12.2 Persistence and degradability

No data available

Page 13 / 18	10200000283	A member of <b>C ALTANA</b>



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

### Product:

Additional ecological	:	No data available
information		

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	<ul> <li>Do not dispose of waste into sewer.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> </ul>
Contaminated packaging	<ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> <li>Do not burn, or use a cutting torch on, the empty drum.</li> </ul>

Page 14 / 18	10200000283	A member of <b>C ALTANA</b>
--------------	-------------	-----------------------------

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

#### **SECTION 14: Transport information** 14.1 UN number ADR : 1309 TDG : 1309 CFR : 1309 IMDG : 1309 ΙΑΤΑ : 1309 14.2 Proper shipping name ADR : ALUMINIUM POWDER, COATED TDG : ALUMINUM POWDER, COATED CFR : ALUMINUM POWDER, COATED IMDG : ALUMINIUM POWDER, COATED ΙΑΤΑ : ALUMINIUM POWDER, COATED 14.3 Transport hazard class ADR : 4.1 TDG : 4.1 CFR : 4.1 IMDG : 4.1 ΙΑΤΑ : 4.1 14.4 Packing group ADR Packaging group : 11 **Classification Code** : F3 Hazard Identification Number : 40 Labels : 4.1 Page 15 / 18 10200000283 A member of **C** ALTANA





Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025

Tunnel restriction code	:	(E)
TDG		
Packaging group	:	II
Labels	:	4.1
CFR		
Packaging group	:	II
Labels	:	4.1
IMDG		
Packaging group	:	II
Labels	:	4.1
EmS Code	:	F-G, S-G
ΙΑΤΑ		
Packing instruction (cargo aircraft)	:	448
Packing instruction	:	445
(passenger aircraft)		
Packing instruction (LQ)	:	Y441
Packaging group	:	II
Labels	:	4.1

### 14.5 Environmental hazards

### 14.6 Special precautions for user

### IMDG Code- segregation group:

: IMDG Code segregation group 15 - Powdered metals

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Page 16 / 18	10200000283	A member of <b>C ALTANA</b>
--------------	-------------	-----------------------------

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

## **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	: Not applicable
Concern for Authorisation (Article 59).	
REACH - List of substances subject to authorisation	: Not applicable
(Annex XIV)	
Regulation (EC) No 1005/2009 on substances that	: Not applicable
deplete the ozone layer	
Regulation (EU) 2019/1021 on persistent organic	: Not applicable
pollutants (recast)	
Regulation (EU) 2019/1148 on the marketing and use of	: Listed
explosives precursors	(aluminium powder (stabilised))
REACH - Restrictions on the manufacture, placing on	: Banned and/or restricted
the market and use of certain dangerous substances,	(aluminium powder (stabilised))
mixtures and articles (Annex XVII)	

### 15.2 Chemical safety assessment

No data available

## **SECTION 16: Other information**

### Full text of H-Statements

H228 : Flammable solid.

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

Page 17 / 18	10200000283	A member of <b>C ALTANA</b>





Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# STANDART PCS 1500 Aluminium Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

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.

Page 18 / 18	10200000283	A member of <b>C ALTANA</b>
--------------	-------------	-----------------------------