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

STANDART PCR 801 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 PCR 801 Aluminium Powder
Material number	:	000235F20

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

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Please refer to our website	forfu	ular hazards for human and environr urther important safety instructions for h cckart/Service/GDA_Alupulver_Safety_	nandling aluminium powder:
GHS-Labelling			
Symbol(s)	:		
Signal word	:	Danger	
Hazard statements	:	H228: Flammable solid.	
Precautionary statements	:	Prevention:P210Keep away from heat, hot surflames and other ignition sources. NoP240Ground and bond container aP241Use explosion-proof electricateequipment.P280P280Wear protective gloves/ protection/ face protection/ hearing protection/ face protection/ hearing protection/ face of fire: Use for powder for metal fires.P370 + P378In case of fire: Use for powder for metal fires.P370 + P378In case of fire: Use for powder for metal fires.	smoking. and receiving equipment. al/ventilating/lighting ective clothing/eye rotection.

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SECTION 3: Composition/information on ingredients

:

Substance No.

Hazardous components

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Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	50 - 100

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

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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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	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.

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6.2 Environmental precautions

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

This information is not available.

6.3 Methods and materials 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.
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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.

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		Provide appropriate exhaust ventilation is formed. Keep away from open flame 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 ori containers tightly closed in a cool, well- away from sources of ignition - No smo closed when not in use.	ile gas (hydrogen) Use ginal container. Keep ventilated place. Keep
		No smoking. Keep container tightly closventilated place. Electrical installations must comply with the technological saf	/ 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 w storage. Keep away from oxidizing age and strongly acid materials in order to a reactions.	ith water during ents, 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.

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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 fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further inform	ation		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 inform	ation	place dangerous amorphous silica manufactured si compliance with	sion for the review of s for the health (MA a, including pyroger 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):

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	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	



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		(Respirable)	l		I
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	
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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

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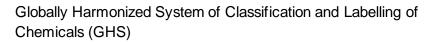
Version 3.0	Revision Date 09.01.2025	Print Date 14.01.2025
General advice	 The product should not be allowed to courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if s If the product contaminates rivers and respective authorities. 	safe to do so.

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.)

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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.
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No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

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Conditions to avoid 10.5 Incompatible materials	: Heat, flames and sparks.
Materials to avoid	: Acids Bases Oxidizing agents Water
10.6 Hazardous decomposition	products

10.6 Hazardous decomposition products

Other information

: No data available

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

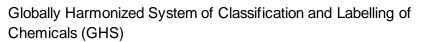
Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

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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

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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	 Do not dispose of waste into sewer. 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.

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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





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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

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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

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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.

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