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

STANDART PCU 3500 Aluminium Powder

Version 4.0	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 PCU 3500 Aluminium Powder
Material number	:	041243EP0

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

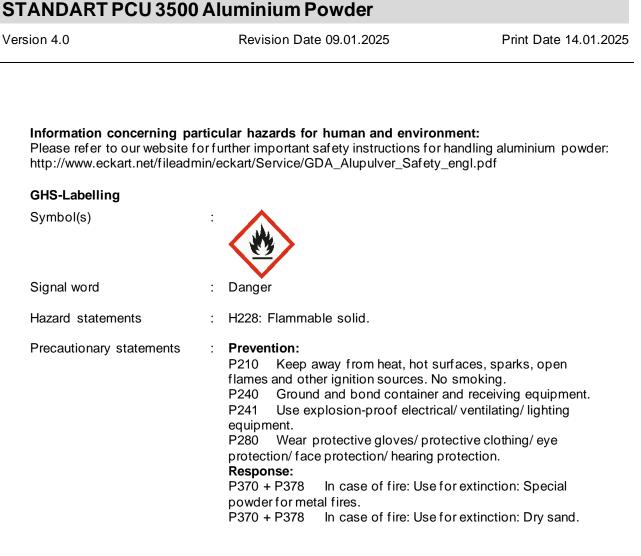
: Flammable solids, Category 1, H228

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🖸 ECKART

Hazardous components which must be listed on the label

:

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.
lf 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

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

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

6.2 Environmental precautions

General advice	The product should not be allowed to enter drains, water				
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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.

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 ho instituted to ensure that dusts of Store away from heat.	
		For personal protection see see drinking should be prohibited ir drum carefully as content may rinse water in accordance with	the application area. Open be under pressure. Dispose of
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 	
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	sources of ignition.	
Hygiene measures	: Wash hands before breaks and a	t the end of workday.
7.2 Conditions for safe storage,	including any incompatibilities	
Requirements for storage areas and containers	: Earthing of containers and appara with water liberates extremely flar explosion-proof equipment. Store containers tightly closed in a cool away from sources of ignition - No closed when not in use.	mmable gas (hydrogen) Use e in original container. Keep l, well-ventilated place. Keep
	No smoking. Keep container tight ventilated place. Electrical installa must comply with the technologic	ations / working materials
Further information on storage conditions	: Protect from humidity and water.	
Advice on common storage	: Do not store together with oxidizir Never allow product to get in cont storage. Keep away from oxidizin and strongly acid materials in order reactions.	tact with water during ng agents, strongly alkaline
Other data	: Keep in a dry place. No decompo as directed.	osition if stored and applied

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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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 (catego		2;(II)				
Further inform	ation		ompliance with the no risk of harming t	-	ical tolerance	
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900	
Peak-limit: exc factor (catego		2;(II)				
Further inform	ation	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
silicon dioxide	7631-86-9	AGW (Inhalable fraction)	4 mg/m3	2013-09-19	DE TRGS 900	
Further inform	ation	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			Colloidal wet processes hen there is	

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08	
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	

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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 dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot	2012-07-01	
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	
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ersion 4.0		Re	vision [Date 09.01.2025	5		Pi	rint Date	14.01.20
silicon 76 dioxide	631-86-9	PEL		6 mg/m3		2014-11-26	5		
2 Exposure controls									
Personal protectiv	e equipm	ent							
Eye protection		: Fac	e-shield	-					
		: lig	ntiy fittii	ng safety goggl	es				
Hand protection									
Material			ther						
Glove length Remarks			ig sieev ther glo	e gloves					
		The its fro : The	choice naterial n one p suitab	e of an appropria but also on oth roducer to the o ility for a specif oducers of the p	ner qu other. ic wo	ality feature	es an uld b	d is diffe	erent
Skin and body prot	ection			and fire resistar 533; EN 1149-	•		-		
		: Du	st imper	vious protective	e suit		-		
		cor	centrati	ody protection a ion of the dange	erous	substance	at th	e work p	
Respiratory protect	ion	req Bre	uires.	le breathing pro apparatus with f		on if workpla	ice c	oncentra	ation
Environmental ever		ntrolo							
Environmental exp General advice	JUSUIE CC	: The cou : Pre	irses or vent pro	ct should not be the soil. oduct from ente rther leakage or	ering c	drains.			r
				uct contaminate	•	-			form
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respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder	
Colour	: silver	
Odour	: characteristic	
рН	: substance/mixtur	e is non-soluble (in water)
Melting point/freezing point	: >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 with the category	r mixture is a flammable solid 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.)	
Solubility(ies)		
Water solubility	: insoluble	
Miscibility with water	: immiscible	
Solubility in other solvents	: No data available	
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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

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Materials to avoid	: Acids Bases Oxidizing agents Water	
Conditions to avoid 10.5 Incompatible materials	: Heat, flames and sparks.	
10.4 Conditions to avoid		
	Dust may form explosive mixtu	re in air.
	No decomposition if stored and	applied as directed.
Hazardous reactions	: Contact with acids and alkalis r	nay release hydrogen.



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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

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

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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

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

Additional ecological information

: No data available

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.

SECTION 14: Transport information

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ΙΑΤΑ	: 1309	
IMDG	: 1309	
CFR	: 1309	
TDG	: 1309	
ADR	: 1309	
14.1 UN number		



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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	:	II
Classification Code	:	F3
Hazard Identification Number	:	40
Labels	:	4.1
Tunnel restriction code	:	(E)
TDG		
Packaging group	:	II
Labels	:	4.1
CFR		
Packaging group	:	II
Labels	:	4.1
IMDG		

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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

SECTION 15: Regulatory information

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

REACH - Candidate List of Su	, ,	: Not	applicable
Concern for Authorisation (Art REACH - List of substances s (Annex XIV)		: Not	applicable
Regulation (EC) No 1005/2009	on substances that	: Not	applicable
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deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollutants (recast) Regulation (EU) 2019/1148 on the marketing and use of explosives precursors REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

: Not applicable

: Listed (aluminium powder (stabilised))
: Banned and/or restricted (aluminium powder (stabilised))

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 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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