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

STANDART PCA 212 Aluminium Powder

Version 3.1	Revision Date 07.05.2024	Print Date 08.05.2024

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

1.1 Product identifier

Trade name	:	STANDART PCA 212 Aluminium Powder
Material number	:	049140EV0

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 : Skin corrosion/irritation, Category 3, H316

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Please refer to our website f	rticular hazards for human and environ or further important safety instructions for h hin/eckart/Service/GDA_Alupulver_Safety	nandling aluminium powder:
GHS-Labelling	····· ••···•···•······················	
Symbol(s)		
Signal word	: Danger	
Hazard statements	: H228: Flammable solid. H316: Causes mild skin irritation.	
Precautionary statements	 Prevention: P210 Keep away from heat, hot surflames and other ignition sources. No P240 Ground and bond container a P241 Use explosion-proof electricate quipment. P280 Wear protective gloves/ protection/ face protection/ hearing protection/ face protection/ hearing protection/ face protection/ hearing protection P370 + P378 In case of fire: Use for powder for metal fires. P370 + P378 In case of fire: Use for particular partindeparticular particular particular p	smoking. and receiving equipment. al/ ventilating/ lighting ective clothing/ eye rotection. s: Get medical help.

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Hazardous components which must be listed on the label

:

SECTION 3: Composition/information on ingredients

Substance No.

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Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	50 - 100
3-trimethoxysilylpropyl methacrylate	2530-85-0 219-785-8	Acute Tox.;5;H303 ;2;H315 ;2A;H319 STOT SE;3;H335	1 - 10
Fatty acids, C14-18 and C16-18- unsatd.	67701-06-8 266-930-6	Acute Tox.;5;H313	1 - 10

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 t Do not leave the victim unattend	
If inhaled	 Remove to fresh air. If unconscious, place in recover advice. 	y position and seek medical
In case of skin contact	 If symptoms persist, call a phys Wash off immediately with soap If skin irritation persists, call a p If on clothes, remove clothes. 	and plenty of water.
In case of eye contact	 Flush eyes with water as a prec Remove contact lenses. Keep eye wide open while rinsin If eye irritation persists, consult 	ng.
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If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beve Never give anything by mouth to If symptoms persist, call a physic	an unconscious person.
4.2 Most important symptoms ar	d effects, both acute and delayed	
This information is not availab	е.	
4.3 Indication of any immediate	nedical attention and special treatm	nent needed
This information is not availab	9.	
SECTION 5: Firefighting meas	ures	
5.1 Extinguishing media		
Suitable extinguishing media	: Dry sand, Special powder agains	t metal fire
Unsuitable extinguishing media	: ABC powder, Carbon dioxide (CC	O2), Water, Foam
	High volume water jet	
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during firefighting	: Contact with water liberates extre (hydrogen).	emely flammable gas
5.3 Advice for firefighters		
Special protective equipment for firefighters	: Wear self-contained breathing ap necessary.	oparatus for firefighting if
Further information	: For safety reasons in case of fire separately in closed containment measures that are appropriate to surrounding environment. Use a	s. Use extinguishing local circumstances and the

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closed containers.

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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. Avoid breathing dust.
	Remove all sources of ignition.

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.

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.

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	Store away from heat.		
	Avoid contact with skin and eyes. section 8. Smoking, eating and dri in the application area. Open drun be under pressure. Dispose of rin local and national regulations.	inking should be prohibited n carefully as content may	
Advice on protection against fire and explosion	: Use explosion-proof equipment. E form explosive mixture in air. Take build up of electrostatic charge. W container to another apply earthing conductive hose material.	e measures to prevent the hen transferring from one	
	Avoid dust formation. Provide app at places where dust is formed. Ke hot surfaces and sources of ignitic	eep away from open flames,	
Hygiene measures	: When using do not eat or drink. When using do not smoke. 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 appara with water liberates extremely flan explosion-proof equipment. Store containers tightly closed in a cool, away from sources of ignition - No closed when not in use.	nmable gas (hydrogen) Use in original container. Keep well-ventilated place. Keep	
	No smoking. Keep container tightl ventilated place. Electrical installa must comply with the technologica	tions / working materials	
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		
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	storage. Keep away from oxidizing a and strongly acid materials in order t reactions.		
Other data	: Keep in a dry place. No decompositi as directed.	ion 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

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	When there is compliance with the OEL and biological tolerar values, there is no risk of harming the unborn child		cal tolerance			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900		
Peak-limit: excursion 2;(II) factor (category)		2;(II)					
Further inform	ation	on When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		cal tolerance			

United States of America (USA):

	Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis	
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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
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	5 mg/m3	2017-10-02
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		powders)			
aluminium	7429-90-5	TWA (powder)	5 mg/m3	1989-01-19	

8.2 Exposure controls

Personal protective equipme	ent	
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 g its material but also on other q from one producer to the other	uality features and is different
	: The suitability for a specific we with the producers of the protection	
Skin and body protection	: Anti-static and fire resistant pr 11612; EN 533; EN 1149-1. A	5
	: Dust impervious protective sui	t
	Choose body protection accor concentration of the dangerous	
Respiratory protection	: Use suitable breathing protect requires.	ion if workplace concentration
	Breathing apparatus with filter	
	P1 filter	
Environmental exposure con	ntrols	
General advice	 The product should not be allo courses or the soil. Prevent product from entering 	
	Prevent further leakage or spil	-
	If the product contaminates riv	ers and lakes or drains inform
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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/mixture	e 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 with the category	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

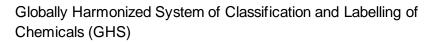
No decomposition if stored and applied as directed.

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	No decomposition if stored and applied as directed.	
Hazardous reactions	: Contact with acids and alkalis r	: Contact with acids and alkalis may release hydrogen.	



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10.6 Hazardous decompositior	n products	
Other information	: No data available	
SECTION 11: Toxicological	information	
11.1 Information on toxicologic	cal effects	
Acute toxicity		
Components:		
3-trimethoxysilylpropyl methac Acute oral toxicity	: LD50 Rat: > 2 000 mg/kg	
Acute dermal toxicity	: Rat: > 2 000 mg/kg	
Fatty acids, C14-18 and C16-18		
Acute oral toxicity	: LD50 Rat: > 5 000 mg/kg	
Acute inhalation toxicity	: LC50 Rat: > 46 mg/l	
	Exposure time: 1 h	
	Test atmosphere: dust/mist	
Acute dermal toxicity	: LD50 Rabbit: > 3 160 mg/kg	
Skin corrosion/irritation		

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Product

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May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product

Product dust may be irritating to eyes, skin and respiratory system.

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

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

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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

12.5 Results of PBT and vPvB assessment

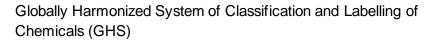
No data available

12.6 Other adverse effects

Product:

Additional ecological : No data available information

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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.
Contaminated packaging	 Send to a licensed waste management company. 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	: 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

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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		
Packaging group	:	II
Labels	:	4.1
EmS Code	:	F-G, S-G
ΙΑΤΑ		
Packing instruction (cargo aircraft)	:	448
Packing instruction	:	445

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(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 Concern for Authorisation (Art	, ,	: No	t applicable
REACH - List of substances s (Annex XIV)		: No	t applicable
Regulation (EC) No 1005/2009 deplete the ozone layer	on substances that	: No	t applicable
Regulation (EU) 2019/1021 or pollutants (recast)	n persistent organic	: No	t applicable
REACH - Restrictions on the r the market and use of certain mixtures and articles (Annex >	dangerous substances,	:	
REACH - Restrictions on the r the market and use of certain mixtures and articles (Annex >	dangerous substances,	(alu	nned and/or restricted uminium powder (stabilised)) onoalkyl or monoaryl or
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:

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

monoalkyaryl esters of methacrylic acid) Listed (aluminium powder (stabilised))

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H228 :	Flammable solid.
H303 :	May be harmful if swallowed.
H313 :	May be harmful in contact with skin.
H315 :	Causes skin irritation.
H316 :	Causes mild skin irritation.
H319 :	Causes serious eye irritation.

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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