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

STANDART PC 200 Aluminium Powder

Version 3.0	Revision Date 03.04.2025	Print Date 04.04.2025

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

1.1 Product identifier

Trade name	:	STANDART PC 200 Aluminium Powder
Material number	:	040817E30

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 f	rticular hazards for human and enviro or further important safety instructions fo hin/eckart/Service/GDA_Alupulver_Safet	or handling aluminium powder:
GHS-Labelling		
Symbol(s)		
Signal word	: Danger	
Hazard statements	: H228: Flammable solid.	
Precautionary statements	P241 Use explosion-proof electri equipment. P280 Wear protective gloves/ pro protection/ face protection/ hearing Response:	No smoking. er and receiving equipment. ical/ ventilating/ lighting otective clothing/ eye protection. e dry sand, dry chemical or

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SECTION 3: Composition/information on ingredients

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Substance No.

Hazardous components

Chemical name	CAS-No.	Classification and	Concentration[%]
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	EINECS-No.	labelling	
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	90 - 100
Fatty acids, C16-18	67701-03-5 266-928-5	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 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

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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 (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

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General advice This information is not available	 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.
6.3 Methods and materials for cor		
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 see	ction 8.	
SECTION 7: Handling and stor	age	
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 surfa Store away from heat.	
	For personal protection see section 8 drinking should be prohibited in the ap drum carefully as content may be und rinse water in accordance with local a	pplication area. Open ler pressure. Dispose of
Advice on protection against	: Use explosion-proof equipment. Durir	

Advice on protection against fire and explosion if an 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



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STANDART PC 200 Aluminium Powder Version 3.0 Revision Date 03.04.2025 Print Date 04.04.2025 is formed. Keep away from open flames, hot surfaces and sources of ignition. : Wash hands before breaks and at the end of workday. Hygiene measures 7.2 Conditions for safe storage, including any incompatibilities : Earthing of containers and apparatuses is essential. Reaction Requirements for storage areas and containers 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 wellventilated place. Electrical installations / working materials must comply with the technological safety standards. Further information on : Protect from humidity and water. storage conditions : Do not store together with oxidizing and self-igniting products. Advice on common storage 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. Other data : 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

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Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis		
aluminium	7429-90-5	AGW (Inhalable 10 mg/m3 fraction)		2021-07-02	DE TRGS 900		
	Peak-limit: excursion factor (category)		2;(II)				
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					
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 information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					

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	
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	
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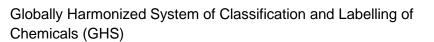
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aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01	
aluminium	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	

8.2 Exposure controls

Personal protective equip	oment			
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		
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	from one producer to the other.	
	: The suitability for a specific workplace s with the producers of the protective glo	
Skin and body protection	: Anti-static and fire resistant protective of 11612; EN 533; EN 1149-1. Anti-static	5
	: Dust impervious protective suit	
	Choose body protection according to th concentration of the dangerous substar	
Respiratory protection	: Use suitable breathing protection if wor requires.	kplace concentration
	Breathing apparatus with filter.	
	P1 filter	
Environmental exposure co	ontrols	
General advice	 The product should not be allowed to e courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if sa If the product contaminates rivers and I respective authorities. 	afe 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

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Bulk density	: No data available	
Flammability (solid, gas)	: The substance or mix with the category 1.	xture is a flammable solid
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	
Partition coefficient: n-octanol/wa	ter : 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	

No data available

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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 10.5 Incompatible materials	: Heat, flames and sparks.
Materials to avoid	: Acids Bases Oxidizing agents Water

10.6 Hazardous decomposition products

Other information	: No data available
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

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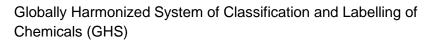


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Fatty acids, C16-18 : Acute oral toxicity	: LD50 Rat: >5 000 mg/kg	
	Method: OECD Test Guideline 401	
Acute dermal toxicity	: LD50 Rabbit: >2 000 mg/kg	
Skin corrosion/irritation		
No data available		
Serious eye damage/eye irrita	ation	
No data available		
Respiratory or skin sensitisa	tion	
No data available		
Carcinogenicity		
No data available		
Toxicity to reproduction/fertil	ity	
No data available		
Reprod.Tox./Development/Te	ratogenicity	
No data available		
STOT - single exposure		
No data available		

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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

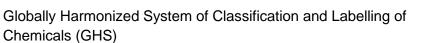
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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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.

SECTION 14: Transport information

14.1 UN number

ADR	:	1309
TDG	:	1309
CFR	:	1309
IMDG	:	1309
ΙΑΤΑ	:	1309

14.2 Proper shipping name

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ADR	: ALUMINIUM POWDER, COATEI	D
TDG	: ALUMINUM POWDER, COATED)
CFR	: ALUMINUM POWDER, COATED)
IMDG	: ALUMINIUM POWDER, COATE	C
ΙΑΤΑ	: ALUMINIUM POWDER, COATED	C
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	
Tunnel restriction code	: (E)	
TDG		
Packaging group	: 11	
Labels	: 4.1	
CFR		
Packaging group	: 11	
Labels	: 4.1	
IMDG		
Packaging group	: 11	

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Labels	:	4.1
EmS Code	:	F-G, S-G
ΙΑΤΑ		
Packing instruction (cargo aircraft)	:	448
Packing instruction (passenger aircraft)	:	445
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 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (aluminium powder (stabilised))
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) on substances that deplete the ozone	: Not applicable

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layer				
Regulation (EU) 2019/1021 on pollutants (recast)	persistent organic :	Not applicable		
Regulation (EU) No 649/2012 (Parliament and the Council cor import of dangerous chemicals	ncerning the export and	Not applicable		
Regulation (EU) 2019/1148 on explosives precursors		Listed (aluminium powo	ler (stabilised))	

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements	
H228	: Flammable solid.
H313	: May be harmful in contact with skin.

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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