

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

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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

1.1 Product identifier

Trade name : STANDART PCUplus 800 Aluminium Powder

Material number : 023670EL0

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	102000029235	A member of C ALTANA



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

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

Information concerning particular hazards for human and environment:

Please refer to our website for further important safety instructions for handling aluminium powder: http://www.eckart.net/fileadmin/eckart/Service/GDA Alupulver Safety engl.pdf

GHS-Labelling

Symbol(s) :

Signal word : Danger

Hazard statements : H228: Flammable solid.

Precautionary statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting

equipment.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection/ hearing protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No.	Classification and	Concentration[%]
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Page 2 / 18 102000029235 A member of C	ALTANA
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STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

	EINECS-No.	labelling	
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	50 - 70

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.

A member of C ALTANA	Page 3 / 18	102000029235	A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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 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.

Page 4 / 18	102000029235	A member of C ALTANA



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

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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.

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

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.

Page 5 / 18 102000029235 A member of **(C) ALTANA**



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

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : 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 apparatuses is essential. Reaction 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 well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

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 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.

Page 6 / 18	102000029235	A member of C ALTANA



STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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 informa	ation		ompliance with the one or isk 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 informa	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 information		place dangerous amorphous silica manufactured sil compliance with	sion for the review of s for the health (MA) a, including pyrogen lica (precipitated sili the OEL and biolog ng the unborn child	K-commission).0 nic silica and in vica, silicagel).Wh	Colloidal vet processes nen 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	5 mg/m3	2013-10-08	

Page 7 / 18	102000029235	A member of C ALTANA



STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

		(Respirable)		
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



STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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

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

A member of O ALTANA



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

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : silver

Odour : characteristic

pH : substance/mixture is non-soluble (in water)

Melting point/ range : > 600 °C

Boiling point/boiling range : No data available

Flash point

Not applicable

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 102000029235 A member of C ALTAN



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

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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.

A member of C ALIANA	Page 11 / 18	102000029235	A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

10.4 Conditions to avoid

Conditions to avoid

: Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids

Bases

Oxidizing agents

Water

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

Page 12 / 18	102000029235	A member of C ALTANA
		A member of C ALTANA



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

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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

Further information

Product

No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

A member of C ALT	2 13 / 18	102000029235 A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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

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.

Page 14 / 18 102000029235 A member of C ALTAN	4 / 18
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

SECTION 14: Transport information

14.1 UN number

ADR : 1309
TDG : 1309
CFR : 1309
IMDG : 1309
IATA : 1309

14.2 Proper shipping name

ADR : ALUMINIUM POWDER, COATED

TDG : ALUMINUM POWDER, COATED

CFR : ALUMINUM POWDER, COATED

IMDG : ALUMINIUM POWDER, COATED

IATA : ALUMINIUM POWDER, COATED

14.3 Transport hazard class

ADR : 4.1
TDG : 4.1
CFR : 4.1
IMDG : 4.1
IATA : 4.1

14.4 Packing group

ADR

Packaging group : II
Classification Code : F3
Hazard Identification Number : 40
Labels : 4.1

Page 15 / 18	102000029235	A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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

IATA

Packing instruction (cargo : 448

aircraft)

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	102000029235	A member of C ALTANA



STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Regulation (EC) on substances that deplete the ozone

layer

Regulation (EU) 2019/1021 on persistent organic

pollutants (recast)

Regulation (EU) No 649/2012 of the European

Parliament and the Council concerning the export and

import of dangerous chemicals

: Banned and/or restricted

(aluminium powder (stabilised))

: Not applicable

: Not applicable

: Not applicable

: Not applicable

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	102000029235	A member of () ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

STANDART PCUplus 800 Aluminium Powder

Version 5.0 Revision Date 02.04.2025 Print Date 03.04.2025

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.