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



STANDART PCBF 5000

Version 2.2

Revision Date 22.11.2023

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

1.1 Product identifier

Trade name	: STANDART PCBF 5000
Material number	: 023570E30

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

Not a dangerous substance according to GHS.

Information concerning particular hazards for human and environment:

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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

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Hazardous components which must be listed on the label

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Other hazards which do not result in classification

Combustible Solids

SECTION 3: Composition/information on ingredients

Substance No.

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	25 - 50

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.	
If inhaled	No hazards which require specia If unconscious, place in recover advice.	
In case of skin contact	If symptoms persist, call a physi : Wash off immediately with soap	
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In case of eye contact If swallowed	 Remove contact lenses. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unco If symptoms persist, call a physician. 	nscious person.

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.

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	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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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.
6.2 Environmental precautions	
General advice :	The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform
	respective authorities.
This information is not available.	
6.3 Methods and materials for cont	ainment and cleaning up

6.3 Methods and materials for containment and cleaning up

: Use mechanical handling equipment.
Do not use a vacuum cleaner.
Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Do not flush with water.
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. Keep away from heat and sources of ignition. Do not smoke.
	For personal protection and postion 9. Smaking poting and

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

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Advice on protection against fire and explosion	: During processing, dust may form exp Take measures to prevent the build up Earthing of containers and apparatuse explosion-proof equipment. When tran container to another apply earthing me conductive hose material.	o of electrostatic charge. s is essential. Use sferring from one
	Normal measures for preventive fire p	rotection.
Hygiene measures	: General industrial hygiene practice.	
7.2 Conditions for safe storage, i	ncluding any incompatibilities	
Requirements for storage areas and containers	: Reaction with water liberates extremel (hydrogen) Store in original container. closed in a cool, well-ventilated place. when not in use. Keep away from sour smoking.	Keep containers tightly Keep container closed
	Electrical installations / working materi the technological safety standards.	als must comply with
Further information on storage conditions	: Protect from humidity and water.	
Advice on common storage	: Do not store together with oxidizing an Never allow product to get in contact w storage. Keep away from oxidizing age and strongly acid materials in order to reactions.	vith water during ents, strongly alkaline
Other data	: Keep in a dry place. No decomposition as directed.	n 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: excursion factor (category)		2;(II)			
Further information			ompliance with the on orisk of harming the other the oth	U U	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 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	5 mg/m3	2014-11-26	
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		dust fraction)		
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
silicon dioxide	7631-86-9	PEL	6 mg/m3	2014-11-26

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8.2 Exposure controls

Personal protective equipm	ent	
Eye protection	:	Face-shield
	:	Safety glasses
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.
Skin and body protection	:	Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes.
Respiratory protection	:	Use suitable breathing protection if workplace concentration requires.
		Breathing apparatus with filter.
		P1 filter
Environmental exposure co	ntr	ols
General advice	:	The product should not be allowed to enter drains, water courses or the soil.
	:	If the product contaminates rivers and lakes or drains inform

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Odour	: characteristic	
Colour	: silver	
Appearance	: powder	

respective authorities.

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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	: ca. 0,34 g/cm3
Flammability (solid, gas)	: Combustible Solids
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: 30 g/m3
Vapour pressure	: No data available
Density	: ca. 1,7 g/cm3
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	: No data available
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

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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.
	Stable under recommended storage conditions.
	Dust may form explosive mixture in air.
0.4 Conditions to sysid	

10.4 Conditions to avoid

Conditions to avoid 10.5 Incompatible materials	: No data available
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

No data available

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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

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

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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	In accordance with local and national regulations.	
Contaminated packaging	: Empty containers should be taken to an approved waste	
	handling site for recycling or disposal.	
	In accordance with local and national regulations.	

SECTION 14: Transport information

14.1 UN number

ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

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Not dangerous goods	
IMDG	
Not dangerous goods	
ΙΑΤΑ	
Not dangerous goods	
14.3 Transport hazard class	
ADR	
Not dangerous goods	
TDG	
Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	
Not dangerous goods	
ΙΑΤΑ	
Not dangerous goods	
14.4 Packing group	
ADR	
Not dangerous goods	
TDG	
Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	
Not dangerous goods	
IATA	

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Not dangerous goods

14.5 Environmental hazards

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

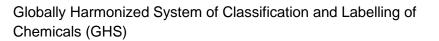
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). Regulation (EC) No 1005/2009 on substances that deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollutants (recast) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

- : Not applicable
- : Not applicable
- : Not applicable
- : Banned and/or restricted (aluminium powder (stabilised)) (2-methoxy-1-methylethyl acetate) (2-methoxypropyl acetate)

15.2 Chemical safety assessment

No data available

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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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