

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

STANDART CHROMAL IV Aluminium Powder

Version 2.0	Revision Date 09.12.2019	Print Date 25.02.2022

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

1.1 Product identifier

Trade name	:	STANDART CHROMAL IV Aluminium Powder
Material number	:	049109E30

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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Information concerning pa hazards for human and en		: Please refer to our websit safety instructions for har	-
		http://www.eckart.net/filea _Alupulver_Safety_engl.p	admin/eckart/Service/GDA odf
GHS-Labelling			
Symbol(s)	:		
Signal word	: Danger		
Hazard statements	: H228: F	ammable solid.	
Precautionary statements	flames a P240 P241 equipme P280 protectic Respon P370 +	Keep away from heat, hot su nd other ignition sources. No Ground and bond container a Jse explosion-proof electrica nt. Near protective gloves/ prote n/ face protection. se: P378 In case of fire: Use fo or metal fires.	o smoking. and receiving equipment. al/ ventilating/ lighting ective clothing/ eye

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Hazardous components which must be listed on the label

SECTION 3: Composition/information on ingredients

Substance name

: AL-PLV CHROMAL IV

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Substance No.

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium powder (stabilised)	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 out of dangerous area.	
		Move the victim to fresh air.	
If inhaled	:	If unconscious, place in recover advice. If symptoms persist, call a phys	
In case of skin contact	:	: If on skin, rinse well with water. If on clothes, remove clothes.	
		Wash off immediately with soap	and plenty of water.
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.	
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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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Avoid dust formation. Remove all sources of ignition.	
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	Use personal protective equipment. Evacuate personnel to safe areas.	
6.2 Environmental precautions		
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to If the product contaminates rivers and lake respective authorities.	
6.3 Methods and materials for con	tainment and cleaning up	
Methods for cleaning up	: Do not flush with water. Keep in suitable, closed containers for disp	oosal.
	Use mechanical handling equipment. Do not use a vacuum cleaner.	
6.4 Reference to other sections		

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	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
	Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Store away from heat.
Advice on protection against fire and explosion	: Keep away from open flames, hot surfaces and sources of ignition.

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	Use explosion-proof equipment. Dur form explosive mixture in air. Take n build up of electrostatic charge. Whe container to another apply earthing r conductive hose material.	neasures to prevent the en transferring from one
Hygiene measures	: Wash hands before breaks and at th	ie end of workday.
7.2 Conditions for safe storage, i	ncluding any incompatibilities	
Requirements for storage areas and containers	: No smoking. Keep container tightly overtilated place. Electrical installation must comply with the technological statements of the second statement	ons / working materials
	Earthing of containers and apparatus with water liberates extremely flamm explosion-proof equipment. Store in containers tightly closed in a cool, w away from sources of ignition - No si closed when not in use.	nable gas (hydrogen) Use original container. Keep ell-ventilated place. Keep
Further information on storage conditions	: Protect from humidity and water.	
Advice on common storage	: Do not store together with oxidizing a Never allow product to get in contact storage. Keep away from oxidizing a and strongly acid materials in order to reactions.	t with water during agents, strongly alkaline
Other data	: Keep in a dry place. No decompositi as directed.	on 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:

Page

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium powder	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
(stabilised)					
Peak-limit: exc factor (categor		2;(II)			
Further information			dangerous substan ounds at the work pl on).		
aluminium powder (stabilised)	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
			dangerous substan ounds at the work pl on).		

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01	
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powder (stabilised)				
aluminium	7429-90-5	TWA (total)	10 mg/m3	2013-10-08
	7429-90-5	TVVA (lotal)	iu mg/ms	2013-10-08
powder				
(stabilised)				
aluminium	7429-90-5	TWA (respirable	5 mg/m3	2012-07-01
powder		fraction)		
(stabilised)				
aluminium	7429-90-5	TWA (respirable	15 Million particles	2012-07-01
powder		fraction)	per cubic foot	
(stabilised)				
aluminium	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26
powder			-	
, (stabilised)				
aluminium	7429-90-5	PEL (respirable	5 mg/m3	2014-11-26
powder		dust fraction)	U	
(stabilised)				
aluminium	7429-90-5	TWA	1 mg/m3	2008-01-01
powder	1 120 00 0	(Respirable		
(stabilised)		fraction)		
aluminium	7429-90-5	TWA	5 mg/m3	2005-09-01
powder	7423-30-3	1 0 0 7 1	o mg/mo	2000 00 01
(stabilised)				
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19
	7429-90-5	TWA (Total)	io mg/mo	1909-01-19
powder				
(stabilised)	7400.00.5	T A/A	F / O	4000.04.40
aluminium	7429-90-5	TWA	5 mg/m3	1989-01-19
powder		(Respirable fraction)		
(stabilised)		,		
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01
powder				
(stabilised)				
aluminium	7429-90-5	TWA (respirable	5 mg/m3	2011-07-01
powder		fraction)		
(stabilised)				
aluminium	7429-90-5	TWA (Total	15 mg/m3	1989-01-19
powder		dust)		
(stabilised)				
. ,			•	· · · · · · · · · · · · · · · · · · ·

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aluminium powder (stabilised)	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19
aluminium powder (stabilised)	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08
aluminium powder (stabilised)	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2013-03-01
aluminium powder (stabilised)	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19
aluminium powder (stabilised)	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02
aluminium powder (stabilised)	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02

8.2 Exposure controls

Personal protective equipment Eye protection	nt :	Safety glasses
	:	Face-shield
Hand protection Material	:	Leather
Glove length	:	Long sleeve gloves

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Devedo		T he second state of the	
Remarks	:	The suitability for a specific wor with the producers of the protect	
	:	Leather gloves	
		The choice of an appropriate gluits material but also on other que from one producer to the other.	
Skin and body protection	:	Dust impervious protective suit	
		Choose body protection accord concentration of the dangerous	
	:	Anti-static and fire resistant prot 11612; EN 533; EN 1149-1. Ant	
Respiratory protection	:	Use suitable breathing protection requires.	on if workplace concentration
		Breathing apparatus with filter. P1 filter	
Environmental exposure co General advice	ontro :	Prevent product from entering c	
		Prevent further leakage or spilla If the product contaminates rive respective authorities.	•
	:		
Water	:		
	:	The product should not be allow courses or the soil.	ved to enter drains, water
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: silver
Odour	: odourless
рН	: No data available
Freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: No data available
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	: No data available
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/water	: No data available

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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	: Stable under recommended storage conditions.
	Contact with acids and alkalis may release hydrogen.
	Dust may form explosive mixture in air.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks.
10.5 Incompatible materials	

10.5 Incompatible materials

Materials to avoid

: Acids Bases Oxidizing agents Water

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10.6 Hazardous decomposition products

Hazardous decomposition products	: No data available
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

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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

12.3 Bioaccumulative potential

No data available

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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		

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. In accordance with local and national regulations.
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. In accordance with local and national regulations.

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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, COATE	ED
TDG	: ALUMINUM POWDER, COATE	D
CFR	: ALUMINUM POWDER, COATE	D
IMDG	: ALUMINIUM POWDER, COATE	Ð
ΙΑΤΑ	: ALUMINIUM POWDER, COATE	Ð
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	
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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 Number	:	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

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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).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	: 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 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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