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

# STANDART CHROMAL VIII Aluminium Powder

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

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

### **1.1 Product identifier**

Trade name	:	STANDART CHROMAL VIII Aluminium Powder
Material number	:	049113E30

### 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 Suisse SA Route de la Brasserie 2 1963 Vétroz
Telephone	: +410273454800
Telefax	: +410273454859
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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# STANDART CHROMAL VIII Aluminium Powder

rsion 2.0 Revision		on Date 09.12.2019	Print Date 16.04.202
Information concerning pa hazards for human and en		: Please refer to our webs safety instructions for ha	ite for further important ndling aluminium powder:
		http://www.eckart.net/file _Alupulver_Safety_engl.	admin/eckart/Service/GDA pdf
GHS-Labelling			
Symbol(s)			
Signal word			
Signal word	: Danger		
Hazard statements	: H228: F	lammable solid.	
Precautionary statements	flames a P240 P241 equipmo P280 protecti <b>Respon</b> P370 +	Keep away from heat, hot su and other ignition sources. No Ground and bond container Use explosion-proof electric ent. Wear protective gloves/pro- on/face protection. <b>se:</b> P378 In case of fire: Use f for metal fires.	o smoking. and receiving equipment. al/ ventilating/ lighting

Hazardous components which must be listed on the label

## **SECTION 3: Composition/information on ingredients**

Substance name

: AL-PLV CHROMAL VIII

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Substance No.

### Hazardous components

Chemical name	CAS-No.	Classification and	Concentration[%]
	EINECS-No.	labelling	
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 the victim to fresh air. Move out of dangerous area.
If inhaled	: If unconscious, place in recovery position and seek medical advice.
In case of skin contact	<ul> <li>If symptoms persist, call a physician.</li> <li>Wash off immediately with soap and plenty of water.</li> <li>If on skin, rinse well with water.</li> <li>If on clothes, remove clothes.</li> </ul>
In case of eye contact	<ul> <li>Flush eyes with water as a precaution.</li> <li>Remove contact lenses.</li> <li>Keep eye wide open while rinsing.</li> </ul>
If swallowed	<ul> <li>If eye irritation persists, consult a specialist.</li> <li>Keep respiratory tract clear.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If symptoms persist, call a physician.</li> </ul>

### 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	:	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	: Use personal protective equipment.
	Evacuate personnel to safe areas.
	Avoid dust formation.
	Remove all sources of ignition.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

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	Prevent further leakage or spillage if If the product contaminates rivers and respective authorities.	
6.3 Methods and materials for cor	tainment and cleaning up	
Methods for cleaning up	: Use mechanical handling equipment. Do not use a vacuum cleaner. Do not flush with water. Keep in suitable, closed containers for	
6.4 Reference to other sections	•	·
For personal protection see sec	ction 8.	
SECTION 7: Handling and stor	age	
7.1 Precautions for safe handling		
Advice on safe handling	: Avoid creating dust. Routine houseke instituted to ensure that dusts do not	

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. 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.
	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

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Requirements for storage areas and containers	: Earthing of containers and apparatus with water liberates extremely flamma explosion-proof equipment. Store in a containers tightly closed in a cool, we away from sources of ignition - No sr closed when not in use.	able gas (hydrogen) Use original container. Keep ell-ventilated place. Keep	
	No smoking. Keep container tightly c ventilated place. Electrical installation must comply with the technological s	ns / working materials	
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.	with water during gents, 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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### Germany:

	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
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(stabilised) Peak-limit: exc factor (categor		2;(II)			<u> </u>
Further information		Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
aluminium powder (stabilised)	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
	Peak-limit: excursion factor (category)			•	
Further information		Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

### 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 powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (total)	10 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m3	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	

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	aluminium powder (stabilised)	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26	
	aluminium powder (stabilised)	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
	aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2008-01-01	
	aluminium powder (stabilised)	7429-90-5	TWA	5 mg/m3	2005-09-01	
	aluminium powder (stabilised)	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19	
	aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19	
	aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01	
	aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01	
	aluminium powder (stabilised)	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19	
	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	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2013-03-01	
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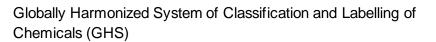
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(stabilised)					
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19	
powder					
(stabilised)					
aluminium	7429-90-5	PEL (Welding	5 mg/m3	2017-10-02	
powder		fumes)			
(stabilised)					
aluminium	7429-90-5	PEL (Pyro	5 mg/m3	2017-10-02	
powder		powders)			
(stabilised)					

### 8.2 Exposure controls

Personal protective equipr	nent		
Eye protection	:	Face-shield	
	:	Safety glasses	
Hand protection			
Material	:	Leather	
Glove length	:	Long sleeve gloves	
Remarks	:	Leather gloves	
		The choice of an appropriate gla its material but also on other qua from one producer to the other.	
	:	The suitability for a specific wor with the producers of the protect	•
Skin and body protection	:	Anti-static and fire resistant prot 11612; EN 533; EN 1149-1. Ant	0
	:	Dust impervious protective suit	
		Choose body protection accord concentration of the dangerous	•
Respiratory protection	:	Use suitable breathing protection requires.	n if workplace concentration
		Breathing apparatus with filter.	
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### P1 filter

Environmental expos	ure controls
General advice	:
	: 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.
Water	: The product should not be allowed to enter drains, water courses or the soil.
	:

### **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 a with the category 1	mixture is a flammable solid 1.
Smoldering temperature	:	> 230 °C	
Auto-flammability	:	No data available	
Upper explosion limit	:	No data available	
Lower explosion limit	:	No data available	
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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
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.

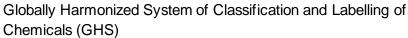
### 10.3 Possibility of hazardous reactions

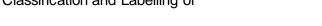
Hazardous reactions

: Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

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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**

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

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### 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

No data available

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

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### 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

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	<ul> <li>Do not dispose of waste into sewer.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> <li>In accordance with local and national regulations.</li> </ul>	
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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, In accordance with local and national re	

## **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
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	

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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 Number	:	F-G, S-G
ΙΑΤΑ		
Packing instruction (cargo aircraft)	:	448
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:

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: 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 Substances of Very High	: Not applicable
Concern for Authorisation (Article 59).	
Regulation (EC) No 1005/2009 on substances that	: Not applicable
deplete the ozone layer	
Regulation (EC) No 850/2004 on persistent organic	: Not applicable
pollutants	

#### 15.2 Chemical safety assessment

No data available

### **SECTION 16: Other information**

### Full text of H-Statements

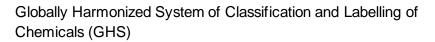
H228

: 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

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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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