

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

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

**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](http://www.eckart.net/fileadmin/eckart/Service/GDA_Alupulver_Safety_engl.pdf)

### GHS-Labeling

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.

**Response:**

P370 + P378 In case of fire: Use for extinction: Special powder for metal fires.

P370 + P378 In case of fire: Use for extinction: Dry sand.

### Hazardous components which must be listed on the label

## SECTION 3: Composition/information on ingredients

Substance name

: AL-PLV CHROMAL VIII

**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

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 the victim to fresh air.  
Move out of dangerous area.
- If inhaled : 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 skin, rinse well with 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**

Page 3 / 18	102000030772	A member of 
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**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

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 (CO<sub>2</sub>), 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.

**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform  
 respective authorities.

**6.3 Methods and materials for containment 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 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. 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**

Page 5 / 18	102000030772	A member of 
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**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

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.

**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/m <sup>3</sup>	2014-04-02	DE TRGS 900

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

(stabilised)					
Peak-limit: excursion factor (category)		2;(II)			
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/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
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/m <sup>3</sup>	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m <sup>3</sup>	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (total)	10 mg/m <sup>3</sup>	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	

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

aluminium powder (stabilised)	7429-90-5	PEL (Total dust)	10 mg/m <sup>3</sup>	2014-11-26	
aluminium powder (stabilised)	7429-90-5	PEL (respirable dust fraction)	5 mg/m <sup>3</sup>	2014-11-26	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m <sup>3</sup>	2008-01-01	
aluminium powder (stabilised)	7429-90-5	TWA	5 mg/m <sup>3</sup>	2005-09-01	
aluminium powder (stabilised)	7429-90-5	TWA (Total)	15 mg/m <sup>3</sup>	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	5 mg/m <sup>3</sup>	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m <sup>3</sup>	2011-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2011-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (Total dust)	15 mg/m <sup>3</sup>	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (welding fumes)	5 mg/m <sup>3</sup>	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (pyro powders)	5 mg/m <sup>3</sup>	2013-10-08	
aluminium powder	7429-90-5	TWA (Respirable fraction)	1 mg/m <sup>3</sup>	2013-03-01	



**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

(stabilised)					
aluminium powder (stabilised)	7429-90-5	TWA (Fumes)	5 mg/m <sup>3</sup>	1989-01-19	
aluminium powder (stabilised)	7429-90-5	PEL (Welding fumes)	5 mg/m <sup>3</sup>	2017-10-02	
aluminium powder (stabilised)	7429-90-5	PEL (Pyro powders)	5 mg/m <sup>3</sup>	2017-10-02	

## 8.2 Exposure controls

### Personal protective equipment

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.

: 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.

**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

P1 filter

**Environmental exposure 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
pH	:	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

**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

Vapour pressure	: No data available
Density	: 2,5 g/cm <sup>3</sup> (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.

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

Dust may form explosive mixture in air.

### 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

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

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

---

**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

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**SECTION 12: Ecological information****12.1 Toxicity**

No data available

**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

**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 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.  
In accordance with local and national regulations.

**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

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.

**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

**STANDART CHROMAL VIII Aluminium Powder**

Version 2.0

Revision Date 09.12.2019

Print Date 16.04.2024

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

**IATA**

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:**

Page 16 / 18	102000030772	A member of 
--------------	--------------	---



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

: 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 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

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

---

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.