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<br>Route de la Brasserie 2<br>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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| rsion 2.0 Revision                                    |  | on Date 09.12.2019  | Print Date 16.04.202  |
|---|--|---|---|
| Information concerning pa<br>hazards for human and en |  | : Please refer to our webs safety instructions for ha   | ite for further important<br>ndling aluminium powder:               |
|   |  | http://www.eckart.net/file<br>_Alupulver_Safety_engl.   | admin/eckart/Service/GDA<br>pdf                                     |
| GHS-Labelling   |  |   |   |
| Symbol(s)   |  |   |   |
| Signal word   |  |   |   |
| Signal word   | : Danger   |   |   |
| Hazard statements                                     | : H228: F  | lammable solid.   |   |
| Precautionary statements                              | flames a<br>P240<br>P241<br>equipmo<br>P280<br>protecti<br><b>Respon</b><br>P370 + | Keep away from heat, hot su<br>and other ignition sources. No<br>Ground and bond container<br>Use explosion-proof electric<br>ent.<br>Wear protective gloves/pro-<br>on/face protection.<br><b>se:</b><br>P378 In case of fire: Use f<br>for metal fires. | o smoking.<br>and receiving equipment.<br>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<br>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.<br>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<br>If the product contaminates rivers and<br>respective authorities.                                 |                       |
| 6.3 Methods and materials for cor | tainment and cleaning up  |                       |
| Methods for cleaning up           | : Use mechanical handling equipment.<br>Do not use a vacuum cleaner.<br>Do not flush with water.<br>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<br>instituted to ensure that dusts do not  |                       |

| Advice on safe handling                         | : Avoid creating dust. Routine housekeeping should be<br>instituted to ensure that dusts do not accumulate on surfaces.<br>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<br>form explosive mixture in air. Take measures to prevent the<br>build up of electrostatic charge. When transferring from one<br>container to another apply earthing measures and use<br>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<br>with water liberates extremely flamma<br>explosion-proof equipment. Store in a<br>containers tightly closed in a cool, we<br>away from sources of ignition - No sr<br>closed when not in use. | able gas (hydrogen) Use<br>original container. Keep<br>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<br>Never allow product to get in contact<br>storage. Keep away from oxidizing a<br>and strongly acid materials in order to<br>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<br>(Form of<br>exposure) | Control<br>parameters | Update     | Basis          |
|--------|---------------------|-----------|-------------------------------------|-----------------------|------------|----------------|
|        | aluminium<br>powder | 7429-90-5 | AGW (Inhalable fraction)            | 10 mg/m3              | 2014-04-02 | DE TRGS 900    |
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| (stabilised)<br>Peak-limit: exc<br>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<br>powder<br>(stabilised)                | 7429-90-5                                  | AGW (Alveolate fraction)   | 1,25 mg/m3 | 2014-04-02 | DE TRGS 900 |
|  | Peak-limit: excursion<br>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<br>(Form of<br>exposure) | Control<br>parameters                  | Update     | Basis |
|-------------------------------------|-----------|-------------------------------------|--|------------|-------|
| aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (total dust)                    | 50 Million particles<br>per cubic foot | 2012-07-01 |       |
| aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA<br>(Respirable)                 | 5 mg/m3                                | 2013-10-08 |       |
| aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (total dust)                    | 15 mg/m3                               | 2012-07-01 |       |
| aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (total)                         | 10 mg/m3                               | 2013-10-08 |       |
| aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (respirable fraction)           | 5 mg/m3                                | 2012-07-01 |       |
| aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (respirable fraction)           | 15 Million particles<br>per cubic foot | 2012-07-01 |       |

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|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | PEL (Total dust)                | 10 mg/m3 | 2014-11-26                  |  |
|--------|-------------------------------------|-----------|---------------------------------|----------|-----------------------------|--|
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | PEL (respirable dust fraction)  | 5 mg/m3  | 2014-11-26                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA<br>(Respirable<br>fraction) | 1 mg/m3  | 2008-01-01                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA                             | 5 mg/m3  | 2005-09-01                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (Total)                     | 15 mg/m3 | 1989-01-19                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA<br>(Respirable<br>fraction) | 5 mg/m3  | 1989-01-19                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (total dust)                | 15 mg/m3 | 2011-07-01                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (respirable fraction)       | 5 mg/m3  | 2011-07-01                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (Total<br>dust)             | 15 mg/m3 | 1989-01-19                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (respirable dust fraction)  | 5 mg/m3  | 1989-01-19                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (welding<br>fumes)          | 5 mg/m3  | 2013-10-08                  |  |
|        | aluminium<br>powder<br>(stabilised) | 7429-90-5 | TWA (pyro<br>powders)           | 5 mg/m3  | 2013-10-08                  |  |
|        | aluminium<br>powder                 | 7429-90-5 | TWA<br>(Respirable<br>fraction) | 1 mg/m3  | 2013-03-01                  |  |
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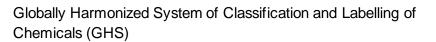
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| (stabilised) |           |              |         |            |  |
|--------------|-----------|--------------|---------|------------|--|
| aluminium    | 7429-90-5 | TWA (Fumes)  | 5 mg/m3 | 1989-01-19 |  |
| powder       |           |              |         |            |  |
| (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<br>its material but also on other qua<br>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<br>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<br>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.

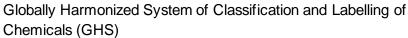
### 10.3 Possibility of hazardous reactions

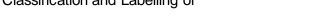
Hazardous reactions

: 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<br>10.5 Incompatible materials | : Heat, flames and sparks.                    |
| Materials to avoid                                 | : Acids<br>Bases<br>Oxidizing agents<br>Water |

### **10.6 Hazardous decomposition products**

| Hazardous decomposition<br>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<br/>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.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on,<br>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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|              |              |                             |

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 | : 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

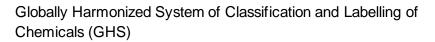
H228

: 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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