according to Regulation (EC) No. 1907/2006



# STANDART CHROMAL VIII Aluminium Powder

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

1.1 Product identifier

Trade name : STANDART CHROMAL VIII Aluminium Powder

Product code : 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 GmbH

Guentersthal 4 91235 Hartenstein

Telephone : +499152770

Telefax : +499152777008

E-mail address of person responsible for the SDS

: msds.eckart@altana.com

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)

Call and response in your language is possible.

Contract no.: ECKART29003-NCEC.

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1 H228: Flammable solid.

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

#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



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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.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

## 3.2 Mixtures

#### **Hazardous components**

| Chemical name                 | CAS-No. EC-No. Index-No. Registration number | Classification<br>REGULATION (EC)<br>No 1272/2008 | Concentration<br>(% w/w) |
|-------------------------------|--|---|--------------------------|
| aluminium powder (stabilised) | 7429-90-5<br>231-072-3<br>01-2119529243-45   | Flam. Sol. 1; H228                                | >= 50 - <= 100           |

For explanation of abbreviations 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.

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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

None known.

## 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.

Remove all sources of ignition.

#### 6.2 Environmental precautions

Environmental precautions : 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.

#### 6.3 Methods and material 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.

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#### 7.2 Conditions for safe storage, including any incompatibilities

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 s

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.

Further information on storage stability

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

## **Occupational Exposure Limits**

| Components                    | CAS-No.  | Value type (Form of exposure) | Control parameters | Basis   |
|-------------------------------|--|-------------------------------|--------------------|---------|
| aluminium powder (stabilised) | 7429-90-5  | TWA (Inhalable)               | 10 mg/m3           | GB EH40 |
| Further information           | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |                               |                    |         |
|                               |  | TWA<br>(Respirable)           | 4 mg/m3            | GB EH40 |
| Further information           | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned  |                               |                    |         |

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|                     | specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.   |  |  |  |
|---------------------|--|--|--|--|
|                     |  | TWA (inhalable dust)   | 10 mg/m3   | GB EH40  |
| Further information | those fraction undertaken General methoracic and hazardous the concentration inhalable during dust will these levels to these muncontain partifate of any pand the boding particle. His termed 'inhalable dust approximate of any pand the boding particle. His termed 'inhalable dust approximate of the lung. MDHS14/4. WEL, all the short-term expensive and the short-te | coses of these limits, ons of airborne dust vin accordance with thods for sampling a dinhalable aerosols, o health includes due on in air equal to or go st or 4 mg.m-3 8-hood be subject to COSH. Some dusts have be st comply with the application of a wide range of a wide range of a response that it elies distinguishes two salable and 'respirable irborne material that fore available for definitions and the wide are definitions and the relevant limits should apply the sample of the relevant limits is listered. | respirable dust and inlewhich will be collected the methods described and gravimetric analysis. The COSHH definition at of any kind when presenter than 10 mg.m-3 ar TWA of respirable definition as a signed specific appropriate limits., Most of sizes. The behavior of sizes. The behavior of reactions for limit-size fractions f | when sampling is in MDHS14/4 so or respirable, of a substance essent at a se-hour TWA of lust. This means that ed to dust above WELs and exposure industrial dusts ur, deposition and a respiratory system, ture and size of the setting purposes eximates to the mouth during breathing bry tract. Respirable e gas exchange region are given in we their own assigned where no specific  |
|                     | exposure iiii  | TWA (Respirable dust)  | 4 mg/m3  | GB EH40  |
| Further information | those fraction undertaken General me thoracic and hazardous to concentration inhalable during dust will these levels to these mucontain partifate of any pand the bod particle. HS termed 'inhalable fraction of a and is there dust approximate of the lung.  | ooses of these limits, ons of airborne dust vin accordance with the thods for sampling and inhalable aerosols, on health includes dust or 4 mg.m-3 8-ho I be subject to COSI. Some dusts have bust comply with the application of a wide range particular particle after y response that it elied it is distinguishes two states alable and respirable irborne material that fore available for deprimates to the fraction Fuller definitions and  | respirable dust and inlawhich will be collected the methods described and gravimetric analysis. The COSHH definition at of any kind when presenter than 10 mg.m-3 ar TWA of respirable did if people are exposition as a signed specific propriate limits., Most of sizes. The behavior of sizes. The behavior of sizes are the nose and mosition in the respirator that penetrates to the dexplanatory material an components that have   | when sampling is in MDHS14/4 is or respirable, of a substance esent at a sent at a sen |

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> WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term

exposure limit should be used.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                | End Use   | Exposure routes | Potential health effects   | Value      |
|-------------------------------|-----------|-----------------|----------------------------|------------|
| aluminium powder (stabilised) | Workers   | Inhalation      | Long-term local effects    | 3.72 mg/m3 |
|                               | Consumers | Oral            | Long-term systemic effects | 3.95 mg/kg |
|                               | Workers   | Inhalation      | Long-term systemic effects | 3.72 mg/m3 |

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                | Environmental Compartment | Value       |
|-------------------------------|---------------------------|-------------|
| aluminium powder (stabilised) | Fresh water               | 0.0749 mg/l |
|                               | clarification plant       | 20 mg/l     |

## 8.2 Exposure controls

#### Personal protective equipment

Face-shield Eye protection

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.

Anti-static and fire resistant protective clothing. DIN EN Skin and body protection

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.

P1 filter

#### **Environmental exposure controls**

The product should not be allowed to enter drains, water Water

courses or the soil.

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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

Odour Threshold : No data available

pH : No data available

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : The substance or mixture is a flammable solid with the

category 1.

Self-ignition : No data available

Auto-ignition temperature : 340 °C

Smoldering temperature : 230 °C

Decomposition temperature : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit

: No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 2.5 g/cm3

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: No data available Bulk density

Solubility(ies)

: insoluble Water solubility

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Decomposition temperature : 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.

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

Contact with water or humid : This information is not available.

air

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Thermal decomposition : This information is not available.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

Not classified based on available information.

## **Components:**

# aluminium powder (stabilised):

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

#### Skin corrosion/irritation

Not classified based on available information.

## Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

# Reproductive toxicity

Not classified based on available information.

# STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

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#### **Further information**

## **Product:**

Remarks: 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

## **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

#### 12.6 Other adverse effects

## **Product:**

Additional ecological

information

: No data available

# **SECTION 13: Disposal considerations**

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles

European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust)

containing hazardous substances

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.

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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
 : UN 1309

 IMDG
 : UN 1309

 IATA
 : UN 1309

14.2 UN proper shipping name

ADR : ALUMINIUM POWDER, COATED IMDG : ALUMINIUM POWDER, COATED

IATA : Aluminium powder, coated

14.3 Transport hazard class(es)

 ADR
 : 4.1

 IMDG
 : 4.1

 IATA
 : 4.1

## 14.4 Packing group

ADR

Packing group : II
Classification Code : F3
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)

**IMDG** 

Packing group : II Labels : 4.1 EmS Code : F-G, S-G

Remarks : IMDG Code segregation group 15 - Powdered metals

IATA (Cargo)

Packing instruction (cargo : 448

aircraft)

Packing instruction (LQ) : Y441
Packing group : II

Labels : Division 4.1 - Flammable solids

IATA (Passenger)

Packing instruction : 445

(passenger aircraft)

Packing instruction (LQ) : Y441
Packing group : II

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Labels : Division 4.1 - Flammable solids

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : no

MDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

#### **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

Regulation (EC) No 850/2004 on persistent organic

pollutants

: Not applicable

## 15.2 Chemical safety assessment

deplete the ozone layer

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

#### **Full text of H-Statements**

H228 : Flammable solid.

Full text of other abbreviations

Flam. Sol. : Flammable solids

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with

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x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

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.

GB / EN