

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART Lac NAT Aluminium Powder

Version 1.1

Revision Date 24.01.2014

Print Date 10.02.2015

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

#### 1.1 Product identifier

Trade name : STANDART Lac NAT Aluminium Powder

#### 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

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:  
From outside US: : (001) 352-323-3500  
(First call in English, response in your language is possible)  
US & Canada (toll free) : 1-800-5355-053

### 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.

##### Classification (67/548/EEC, 1999/45/EC)

Highly flammable R11: Highly flammable.

**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)

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H228	Flammable solid.
Precautionary statements	:	<b>Prevention:</b> P210 P240 P241 P280 <b>Response:</b> P370 + P378 P370 + P378	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Wear protective gloves/ eye protection/ face protection. In case of fire: Use for extinction: Special powder for metal fires. In case of fire: Use for extinction: Dry sand.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
aluminium	7429-90-5 231-072-3 01-2119529243-45	F; R11	Flam. Sol. 1; H228	>= 50 - <= 100

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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**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 recovery position and seek medical advice.  
If symptoms persist, call a physician.
- 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.

**4.2 Most important symptoms and effects, both acute and delayed**

- Symptoms : No information available.
- Risks : No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : No information available.
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**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

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### 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 fire fighting 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.  
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 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 : Do not flush with water.  
Keep in suitable, closed containers for disposal.  
  
Use mechanical handling equipment.  
Do not use a vacuum cleaner.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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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.

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.

Hygiene measures : Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

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.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

German storage class : 4.1B, Flammable solid hazardous materials

Other data : Keep in a dry place. No decomposition if stored and applied as directed.

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### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	2009-02-16	DE TRGS 900
Further information		Commission for dangerous substances			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,35 mg/m <sup>3</sup>	2009-02-16	DE TRGS 900
Further information		Commission for dangerous substances			

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Update
aluminium	7429-90-5	Aluminium: 200 µg/l (Urine)	Immediately after exposition or after working hours	2004-08-01

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water

: Face-shield

Hand protection

Material : Leather

Glove length : Long sleeve gloves

Remarks : Leather gloves

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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. EN 531; 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

- 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

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pH	: no data available
Melting point/freezing point	: 660 °C
Boiling point/boiling range	: 2.467 °C
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	: 30 mg/m <sup>3</sup>
Vapour pressure	: no data available
Density	: no data available
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-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

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## 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.



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### 10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.  
Dust may form explosive mixture in air.  
Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents

### 10.6 Hazardous decomposition products

Other information : no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Components:

##### 7429-90-5 :

Acute inhalation toxicity : LC50 rat: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitisation

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no data available

### **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

### **12.2 Persistence and degradability**

no data available

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**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

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**SECTION 13: Disposal considerations**

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

**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.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.

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**SECTION 14: Transport information****14.1 UN number**

ADR : 1309

IMDG : 1309

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**IATA** : 1309

### 14.2 Proper shipping name

**ADR** : ALUMINIUM POWDER, COATED

**IMDG** : ALUMINIUM POWDER, COATED

**IATA** : ALUMINIUM POWDER, COATED

### 14.3 Transport hazard class

**ADR** : 4.1

**IMDG** : 4.1

**IATA** : 4.1

### 14.4 Packing group

#### **ADR**

Packaging group : II

Classification Code : F3

Hazard identification No : 40

Labels : 4.1

Tunnel restriction code : (E)

#### **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

### 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

Water contaminating class : nwg not water endangering  
(Germany)

#### 15.2 Chemical Safety Assessment

no data available

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### SECTION 16: Other information

#### Full text of R-Phrases

R11 Highly flammable.

#### 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.