

According to directive 1907/2006/EC,2020/878  
Version 4.0 Revision date: 29-07-2022  
Trade name: Aluminium powder natural

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

### **1.1 Product identification:**

Product name: Aluminium powder natural.  
REACH Number : A registration number is not available for this substance because the substance or use is exempted from registration, the annual volume does not require registration or the registration is scheduled with a later registration deadline.

CAS No : 7429-90-5

### **1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Usage: Filler.  
Recommended restrictions on use: For business use only.

### **1.3 Details of the supplier of the safety data sheet:**

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### **1.4 Emergency phone number:**

For Belgium: Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.  
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Identification of hazards**

### **2.1 Classification of the substance or mixture:**

**Classification according to directive (EC) No 1272/2008 and its amendments.**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### **2.2 Labelling elements:**

**Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:** not applicable.

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### **2.3 Other hazards:**

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **Ecological information:**

The substance/mixture does not contain components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

#### **Toxicological information:**

The substance/mixture does not contain components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

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

#### **3.1 Substances:**

Formula :	Al
Molecular weight :	27.01 g/mol
CAS No :	7429-90-5
EC No :	231-072-3

Specific composition due to applicable regulations not necessary to show

### **SECTION 4: First aid measures**

#### **4.1 Description of first-aid measures:**

##### **When inhaled**

After inhalation: fresh air.

##### **On contact with skin**

Remove contaminated clothing immediately.

Rinse skin with water/ shower off.

##### **On contact with eyes**

After eye contact: rinse with plenty of water.

Remove contact lenses.

##### **If swallowed**

After swallowing: make victim drink water (no more than two glasses).

If unwell: consult doctor.

#### **4.2 Main acute and delayed symptoms and effects:**

The main known symptoms and effects are described on the label (see section 2.2) and/or section 1.1.

#### **4.3 Indication of immediate medical attention and special treatment required:**

No data available.

### **SECTION 5: Fire-fighting measures**

#### **5.1 Extinguishing media:**

##### **Suitable extinguishing agents:**

Special powder for metal fires

Sand

Cement

##### **Unsuitable extinguishing agents**

Water

Foam.

#### **5.2 Special hazards arising from the substance or mixture:**

Aluminium oxide

Non-flammable.

In case of fire, dangerous fire gases and vapours may be generated.

Fire in the surrounding area is likely to create hazardous fumes.

#### **5.3 Advice for firefighters:**

In case of fire, wear a compressed air mask.

#### **5.4 Further information**

Prevent extinguishing water from contaminating surface water or groundwater systems.

### **SECTION 6: Measures in case of accidental release of the substance or mixture**

#### **6.1 Personal precautions, protective equipment and emergency procedures:**

##### **Advice for non-aid workers**

Avoid dust inhalation.

Clear danger zone, follow emergency procedures, consult an expert.

For personal protection, see section 8.

#### **6.2 Environmental precautions:**

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Do not allow product to enter drains.

#### 6.3 Methods and materials for containment and cleaning:

Cover drains.

Collect, bind and pump spilled material .

Observe possible material restrictions (see paragraphs 7 and 10).

Dry recording.

Send for disposal.

Clean contaminated surface.

Avoid formation of dust.

#### 6.4 Reference to other sections:

For waste disposal, see section 13.

### **SECTION 7: Handling and storage:**

#### 7.1 Precautions for safe handling of the substance or mixture:

For precautions, see chapter 2.2.

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

##### **Storage conditions**

Well-sealed.

Dry.

Recommended storage temperature, see product label.

##### **Storage class**

German storage classification (TRGS 510): 11: Flammable solids.

#### 7.3 Specific end use:

Part of the uses listed in section 1.2 no other uses agreed.

### **SECTION 8: Exposure controls/personal protection measures**

#### 8.1 Control parameters:

##### **Components with workplace limits**

The product contains no ingredients for which exposure values have been established.

#### 8.2 Exposure control measures:

##### **Personal protective equipment**

###### **Eye/face protection**

Use face and/or eye protection tested and approved by official bodies such as NIOSH (US) or EN166 (EU).

Protective glasses.

###### **Skin protection**

This recommendation relates only to the product mentioned in the safety data sheet, for the applications specified by us.

If the agent is dissolved in, or mixed with other substances, under conditions other than those specified in EN374 please contact the supplier of the CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

###### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Breakthrough time: 480 min

Material tested: KCL 741 Dermatril® L

###### Spad contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Breakthrough time: 480 min

Material tested: KCL 741 Dermatril® L

###### **Respiratory protection**

Required if dust formation occurs.

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Our recommendations for filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other applicable standards relating to the respiratory protection system used.

Recommended filter type: Filter type P1.

The employer must ensure that maintenance, cleaning and testing of respiratory protection equipment are carried out in accordance with the supplier's instructions.

These measures must be documented in detail.

### **Preventing environmental exposure**

Do not allow product to enter drains.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties:**

Physical state:	granules
Colour:	silver
Odour:	No data available
Melting/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability (solid, gas):	No data available
High/low flammability or explosive limits:	No data available
Flash point:	Not applicable
Self-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
<b>Viscosity</b>	
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Solubility in water:	No data available
Partition coefficient: n-octanol/water:	Does not apply to inorganic substances
Vapour pressure:	No data available
Density:	No data available
<b>Relative density</b>	
Relative vapour density:	No data available
Particle characteristics:	No data available
Explosive properties:	No data available
Oxidising properties:	None

### **9.2 Other safety information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity:**

For flammable, organic substances and mixtures, in general: in the case of windblown dust in a correspondingly fine distribution, the risk of a dust explosion should generally be assumed.

### **10.2 Chemical Stability:**

The product is chemically stable under standard ambient conditions (room temperature).

### **10.3 Potential Hazardous Reactions:**

No data available.

### **10.4 Conditions to avoid:**

No information available.

### **10.5 Chemically Interacting Materials:**

No data available

### **10.6 Hazardous Decomposition Products:**

In case of fire: see chapter 5.

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects:**

#### **Acute toxicity**

Oral: No data available

Inhalation: No data available

Skin: No data available

#### **Skin corrosion/irritation**

No data available

#### **Serious eye damage/eye irritation**

No data available

#### **Respiratory/skin sensitisation**

No data available

#### **Mutagenicity in gametes**

No data available

#### **Carcinogenicity**

No data available

#### **Reproductive toxicity**

No data available

#### **Specific target organ toxicity - single exposure**

No data available

#### **Specific target organ toxicity - repeated exposure**

No data available

#### **Aspiration hazard**

No data available

### **11.2 Additional information**

#### **Endocrine-disrupting properties**

Product:

Assessment : The substance/mixture does not contain any components believed to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

To our knowledge, its chemical, physical and toxicological properties have not been thoroughly investigated.

## **SECTION 12: Ecological information**

### **12.1 Toxicity:**

No data available.

### **12.2 Persistence and Degradability:**

The method for determining biodegradability does not apply to inorganic substances.

### **12.3 Bioaccumulation:**

No data available.

### **12.4 Mobility in soil:**

No data available

### **12.5 Results of PBT and vPvB assessment:**

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Endocrine disrupting properties**

Product:

#### **Assessment:**

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

### **12.7 Other Harmful Effects:**

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No data available.

## **SECTION 13: Disposal instructions**

### **13.1 Waste treatment methods:**

#### **Product :**

According to local and national regulations.  
Container dangerous when empty.  
Do not dispose together with household waste.  
Do not mix streams during waste collection.

#### **Contaminated packaging :**

Empty containers should be taken to local recyclers for disposal.

## **SECTION 14: Information relating to transport**

### **14.1 UN number**

Not regulated as a hazardous substance.

### **14.2 Proper cargo name according to UN model regulations**

Not regulated as a hazardous substance.

### **14.3 Transport hazard class(es)**

Not regulated as a hazardous substance.

### **14.4 Packing group**

ADR/RID/ADN:

Not regulated as a hazardous substance

IMDG:

Not regulated as a hazardous substance

Notes:

IMDG Code segregation group - none

IATA (Cargo):

Not regulated as a dangerous substance

IATA (Passenger):

Not regulated as a dangerous substance

### **14.5 Environmental hazards**

Not regulated as a hazardous substance.

### **14.6 Special precautions for the user**

Notes:

The transport of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training;

### **14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code**

Notes: Not applicable for product as supplied.

## **SECTION 15: Statutory information**

### **15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:**

**REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):**

Not applicable

**REACH - Candidate list of substances of very high concern for authorisation (Article 59):**

Not applicable

**Regulation (EC) No 1005/2009 on ozone-depleting substances:**

Not applicable

**Regulation (EE) 2019/1021 on persistent organic pollutants (recast):**

Not applicable

**Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals:**

Not applicable

**REACH - List of substances subject to authorisation (Annex XIV):**

Not applicable

**REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors.**

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**The acquisition, introduction, possession or use of the explosives precursor by private individuals is subject to a notification requirement:**

Aluminium powder (pyrophoric) (ANNEX II)

**REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors.**

**This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts must be reported to the relevant national contact point. See**

**[https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-precursors/docs/list\\_of\\_competent\\_authorities\\_and\\_national\\_contact\\_points\\_en.pdf](https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-precursors/docs/list_of_competent_authorities_and_national_contact_points_en.pdf)**

Aluminium powder (pyrophoric) (ANNEX II)

**Overviews of toxic chemicals and precursor (intermediate) compounds of the International Convention on Chemical Weapons ("International Chemical Weapons Convention (CWC")):**

Not applicable

**Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:**

Not applicable

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:**

Not applicable

**Other regulations:**

As for the composition of the product, we deliberately do not add any of the substances indicated in European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).

The product therefore complies with the said guidelines.

Also, no conflict minerals are deliberately added to the product.

15.2 Chemical safety assessment:

Not applicable.

## **SECTION 16: Other information**

### **Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning

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the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TECL - Inventory of Chemical Substances Existing in Thailand; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

### Training advice:

Provide proper information, instruction and training for users.

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated. This information is intended only as guidance for safe handling, use, processing, storage, transportation, disposal, and release, and should not be considered a guarantee or indication of quality.