

According to directive 1907/2006/EC, 2020/878  
Version 6.0 Revision date: 16-08-2021  
Trade name: Aluminium powder imitation silver

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

### **1.1 Product Identification:**

Product name: Aluminium powder imitation silver  
Chemical name: Aluminium  
EC No: 231-072-3  
CAS No.: 7429-90-5  
REACH registration number: 01-2119529243-45-0146

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

Mainly use: Industrial use, Professional use.  
Specific Uses: Pigment

### **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**.  
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.

NHS 24 Direct

### **1.5 EU 2019/1148**

An economic operator which makes available a restricted explosives precursor to another economic operator shall inform that operator that the acquisition, introduction, possession or use by members of the general public of that restricted explosives precursor is subject to a restriction within the meaning of Article 5(1) and (3).

An economic operator who offers a regulated explosives precursor to another economic operator shall inform that operator that the acquisition, introduction, possession or use by members of the general public of that restricted explosives precursor is subject to a notification requirement within the meaning of Article 9 cfr EU 2019/1148.

## **SECTION 2: Hazard identification**

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

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

The substance is classified as non-hazardous according to Regulation (EC) No 1272/2008.

### **2.2 Label elements:**

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:**

Not applicable.

### **2.3 Other hazards:**

**PBT/vPvB data**

Not applicable

Dust explosion hazard.

No endocrine disruptors.

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

### **3.1 Substances:**

<b>Substance name:</b>	<b>Product identification</b>	<b>%</b>	<b>Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP].</b>
Aluminium	CAS No. : 7429-90-5 EC No : 231-072-3 Catalogue-No.: 013-002-00-1 REACH-No: 01-2119529243-45-0146, 01-2119529243-45-XXXX	100 %	Not classified

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

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

#### **Inhalation:**

Provide fresh air. In case of doubt or if symptoms occur, seek medical advice.

#### **Skin contact:**

No hazards requiring special first aid measures.

#### **Eye contact:**

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.

If symptoms persist, consult a physician.

#### **After swallowing:**

In case of doubt or if symptoms occur, seek medical advice.

#### **Supplementary advice:**

Symptomatic treatment.

See also heading 8

First aid: watch out for self-protection!

In case of doubt or if symptoms occur, seek medical advice.

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

#### **Inhalation:**

Repeated or sustained exposure: (dust) : May cause breathing difficulties and lung damage.

#### **Skin contact:**

No harmful effects are expected.

#### **Eye contact:**

Contact of the eyes with dust may cause mechanical irritation.

#### **Ingestion:**

Might irritate.

#### **Other adverse effects:**

none.

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

No data available

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

### **5.1 Extinguishing media:**

#### **Suitable extinguishing media:**

Special powder for metal fires .

Dry sand .

Adapt extinguishing measures to the environment.

#### **Unsuitable extinguishing media:**

Water

Foam

Carbon dioxide

ABC powder

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

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**Fire Hazard :**

Not flammable.

**Specific Hazards:**

Dust can form an explosive mixture in air.  
Contact with water liberates highly inflammable gases (H<sub>2</sub>).

5.3 Advice for firefighters:

**Advice for firefighters:**

Special protection in fire fighting.  
In case of fire: Wear self-contained breathing apparatus.

**SECTION 6: Accidental release measures for the substance or mixture**

6.1 Personal precautions, protective equipment and emergency procedures:

**Non-emergency trained personnel:**

Evacuate.  
Prevent unauthorised persons from entering the zone.  
Ensure adequate ventilation.  
Use the necessary personal protective equipment.  
Personal protection: see paragraph 8  
Avoid dust generation.  
Keep away from sources of ignition - No smoking.  
Use only non-sparking tools.

**Deployers:**

Take precautions and provide training for emergency decontamination and disposal.  
Personal protection: see section 8.

6.2 Environmental precautions:

**Environmental precautions:**

Do not discharge into drains or open waters.

6.3 Methods and material for containment and cleaning up:

**Cleaning methods:**

Plug the leak if it can be done safely.  
Containment.  
Mechanical recording.  
Do not rinse with water / water (with cleaning agent)  
Waste disposal according to government regulations.

6.4 Reference to other sections:

Personal protection: see paragraph 8  
Waste disposal: see section 13.

**SECTION 7: Handling and storage:**

7.1 Precautions for safe handling

**Handling :**

Ensure adequate ventilation.  
Use the necessary personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Personal protection: see section 8.  
Dust can form an explosive mixture in air.  
Avoid dust generation.  
Regular dust removal from electrical wires and dust contacts.  
Keep away from sources of ignition - No smoking.  
Make sure the equipment is earthed.  
Use only non-sparking tools.  
Avoid mixing with chemically incompatible materials.

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Contact with water liberates highly flammable gases. (H2)  
See also section 10.

Do not discharge into drains or open waters.

**Also provide advice on general occupational hygiene :**

Ensure good company hygiene.

Do not eat, drink or smoke while using.

Wash hands before breaks and immediately after handling the product.

Remove contaminated clothing.

**7.2 Conditions for safe storage, including any incompatibilities:**

**Storage :**

Keep containers tightly closed in a dry, cool and well-ventilated place.

Do not store near or with any of the incompatible substances listed in section 10.

Protect against water / moisture

**Packaging Material :**

Store only in the original container.

**7.3 Specific end use:**

No data available.

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

**8.1 Control parameters:**

**Exposure Limit Values**

<b>Aluminium (7429-90-5)</b>		
Austria	MAK (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable fraction)
Austria	MAK Short-time value (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (inhalable fraction)
Belgium	Limit value (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	10.0 mg/m <sup>3</sup> (metal dust) 1,5 mg/m <sup>3</sup> (respirable fraction)
Croatia	GVI (granicna vrijednost izlozenosti) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 4 mg/m <sup>3</sup> (respirable dust)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (metal) 5 mg/m <sup>3</sup> (dust)
Greece	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (respirable fraction)
Latvia	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (dust)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (calculated-inhalable dust) 12 mg/m <sup>3</sup> (calculated-respirable dust)
Czech Republic	Expocizni limity (PEL) (mg/m <sup>3</sup> )	10.0 mg/m <sup>3</sup> (dust)
Denmark	Graensevaerdie (longvar) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (dust, fume and powder, total) 2 mg/m <sup>3</sup> (dust and powder, respirable)
Hungary	AK-ertek (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (respirable dust)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (respirable dust)
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (calculated-respirable dust)
Lithuania	IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (inhalable fraction) 2 mg/m <sup>3</sup> (respirable fraction) 1 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (pyrotechnical-powder)
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (pyrotechnical-powder)
Poland	NDS (mg/m <sup>3</sup> )	2,5 mg/m <sup>3</sup> (inhalable fraction) 1.2 mg/m <sup>3</sup> (respirable fraction)
Romania	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (dust) 1 mg/m <sup>3</sup> (fume)
Romania	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (powder)

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		3 mg/m <sup>3</sup> (fume)
Slovakia	NPHV (priemerna) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup> (metal) 6 mg/m <sup>3</sup> (total aerosol)
Sweden	Nivagränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (total dust) 2 mg/m <sup>3</sup> (respirable dust)

## Recommended monitoring procedures:

Concentration measurement in the air

Passenger air control

DNEL: 3.72 mg/m<sup>3</sup>

PNEC: 46 - 17800 µg/l

## 8.2 Exposure controls:

### Personal Protection :

The type of protective equipment depends on the concentration and quantity of dangerous substances at the workplace in question. : substance

### Respiratory protection :

Use suitable respirator.

Effective dust mask. (EN 149)

Respiratory protection with a dust filter (EN 143)

Filter type: P1

### Protection of the hands :

Not required for normal use.

### Eye protection :

Protective goggles against dust (EN 166)

### Body protection :

No special protective equipment required.

### Protection against thermal hazards :

Not required for normal use.

### Technical control measures :

Use only in areas with adequate exhaust ventilation.

Apply measures to prevent dust explosions.

Organisational measures related to the prevention/limitation of the release, spread and exposure

See also heading 7

### Control of environmental exposure :

Do not discharge into drains or open waters.

Compliance with applicable Community environmental protection legislation

## SECTION 9: Physical and chemical properties

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

Appearance :	Flakes
Color :	of silver
Odor :	odorless
Odour threshold value :	No data available
Odour threshold value :	No data available
pH :	Not applicable
Melting/freezing point :	660°C
Initial boiling point and boiling range :	2467°C
Flash Point :	Not applicable
Evaporation rate :	No data available
Flammability (solid, gas) :	Not flammable, (UN Test N.1: Test method for readily combustible solids)
Upper/lower flammability or explosion limits :	No data available
Vapour pressure :	No data available

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Vapour pressure :	No data available
Density :	2,7 g/cm <sup>3</sup> @ 20°C
Relative density :	No data available
Solubility in water :	Not soluble
Solubility of other substances :	No data available
n-Octanol/Water partition coefficient :	No data available
Auto-ignition temperature :	Not applicable
Decomposition temperature :	No data available
Viscosity :	No data available
Explosive properties :	Not applicable. The test does not need to be conducted, as the molecule does not contain any chemical groups to suggest possible explosive properties.
Fire retardant properties :	Not applicable. The classification process need not be used because there are no chemical groups in the molecule with oxidizing properties.

## 9.2 Other information

Other information :

Dust may form explosive mixture in air.  
Lower explosion limit (g/m<sup>3</sup>) : 30 E6  
Ignition temperature : > 400°C  
Minimum ignition temperature of a 5mm dust layer (glow temperature) : > 230°C  
(Apparent) Density : 0.15 - 0.35 g/cm<sup>3</sup> @ 20°C

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

### 10.1 Reactivity:

None in normal operation.

Reference to other sections: 10.5

### 10.2 Chemical Stability:

The product is stable when stored at normal ambient temperatures.

### 10.3 Potential Hazardous Reactions:

Dust explosion hazard.

(UN Test N.5: Test methods for substances that produce flammable gases in contact with water).

Reference to other headings: 10.4/10.5

### 10.4 Conditions to Avoid:

Remove ignition sources.

See also section 7.

### 10.5 Chemically Interacting Materials:

#### **Materials to avoid:**

Reacts with the following substances: Acids and bases, Halogens, Halogenated compounds, Flammable substances

### 10.6 Hazardous Decomposition Products:

None.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects:

#### **Acute toxicity :**

Not classified (Based on available data, the classification criteria are not met)

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

Not classified (Based on available data, the classification criteria are not met)

pH: not applicable

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**Serious eye damage / eye irritation:**

Not classified (Based on available data, the classification criteria are not met)  
pH: not applicable

**Respiratory tract / skin sensitization:**

Not classified (Based on available data, the classification criteria are not met)

**Mutagenicity in germ cells:**

Not classified (Based on available data, the classification criteria are not met)

**Carcinogenicity:**

Not classified (Based on available data, the classification criteria are not met)

**Toxicity for reproduction:**

Not classified (Based on available data, the classification criteria are not met)

**Specific target organ toxicity (single exposure):**

Not classified (Based on available data, the classification criteria are not met)

**Specific target organ toxicity (repeated exposure):**

Not classified (Based on available data, the classification criteria are not met)

**Danger by inhalation:**

Not classified (Based on available data, the classification criteria are not met)

11.2 Information on other hazards

**Endocrine disrupting properties:**

Not applicable.

**Other information :**

Symptoms related to physical, chemical and toxicological properties: Reference to other sections: 4.2

**SECTION 12: Ecological information**

12.1 Toxicity:

Under normal use, no environmental damage is known or expected.

12.2 Persistence and Degradability:

Not applicable

12.3 Bioaccumulation:

**Bioaccumulation :**

No data available

**n-Octanol/Water partition coefficient :**

No data available

12.4 Mobility in Soil:

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB data : Not applicable

12.6 Endocrine disrupting properties

Not applicable.

12.7 Other Harmful Effects:

No other effects known.

**SECTION 13: Instructions for disposal**

13.1 Waste treatment methods:

**Waste product:**

Do not dispose of together with household waste.

If re-use is not possible, dispose of in accordance with local regulations.

**Contaminated packaging:**

Delivery to an authorized waste disposal company.

**Further ecological clues:**

Do not discharge into drains or open waters.

**Recommendation list for waste key/waste designations according to EAKV:**

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Waste codes should be assigned by the user, preferably in consultation with the waste management authorities.

The following waste codes are only suggestions: 12 01 04

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

### 14.1 UN number

Not regulated as dangerous substance

### 14.2 Proper load name according to UN Model Regulations

Not regulated as dangerous substance

### 14.3 Transport hazard class(es)

Not regulated as dangerous substance

### 14.4 Packing group

Remarks : IMDG Code segregation group - none

Not regulated as dangerous substance

### 14.5 Environmental hazards

Not regulated as dangerous substance

### 14.6 Special precautions for the user

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as delivered.

## **SECTION 15: Legally required information**

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

#### **EU regulations**

Restrictions on use: Not applicable

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation

1907/2006/EC: none

Permits: Not applicable

#### **National regulations**

THE :WGK: nwg

DE : TA-Luft: Total dust

EN : ABM: 11 - Slightly harmful to aquatic organisms (B)

NL : NeR (Dutch Emission Guidelines): Inorganic substances in powder form

### 15.2 Chemical Safety Assessment:

A Chemical Safety Assessment has been carried out for this substance.

## **SECTION 16: Other information**

### **Key literature and data sources:**

European Metal Particulate Association (EMPA)

### **Other information:**

This substance may be placed on the market in a form which does not have the physical hazard corresponding to the classification set out in Part 3. If the results of the appropriate method(s) according to Part 2 of Annex I to this Regulation demonstrate that the specific form in which the substance is marketed does not have this physical property or hazard, the substance shall be classified on the basis of the result of this/these test(s). The safety data sheet shall give details, including reference to the test method(s).

### **Abbreviations and acronyms:**

ADN = European Agreement concerning the International Carriage of Dangerous Goods on the Rhine

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

CLP = Classification, labelling and packaging of substances according to 1272/2008/EC

IATA = International Air Transport Association

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IMDG = International Maritime Dangerous Goods Code

LEL = lower explosion limit/ lower explosion limit UEL = upper explosion limit/ upper explosion limit

REACH = the registration, evaluation, authorisation and restriction of chemicals

TWA = Time-weighted average STEL = Shorter-term exposure limit values

PBT = persistent, bioaccumulative, and toxic.

vPvB = very persistent and very bioaccumulating (vPvB)

EWC = European Waste List NA = Not applicable

NA = Not applicable

DNEL = Derived no-effect doses

PNEC = Predicted no-effect concentrations

The contents and format of this Safety Data Sheet (SDS) are in accordance with Directive 1272/2008/EC and Regulation 1907/2006/EC (REACH) Annex II of the EEC Commission.

## REJECTION OF LIABILITY

The information contained in this Safety Data Sheet has been obtained from sources believed to be reliable. However, the information is provided without any guarantee - direct or implied - as to its accuracy. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we accept no liability and expressly disclaim liability for any loss, damage or expense which may arise in any way from the handling, storage, use or disposal of the product. This Safety Data Sheet has been prepared, and should be used, exclusively for this product. If the product is used as a component in another product, the information on the SDS may not apply.