

Safety Data Sheet according to Regulation (EC) No 830/2015

Date of Compilation/Revision: 23.08.2017./ 14.01.2022. (m.)

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers: Metal Pigment Silver, Sparkling Silver

Type of substance: CLP Substance

CAS: 7429-90-5

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

Metallic pigment for hobby.

1.3 Details of the supplier of the safety data sheet:

Pentacolor Kft.

1103 Budapest, Gyömrői út 86.

tel.: +36-1-260-7477

fax: +36-1-262-1345

e-mail: info@pentacolor.hu

For product safety information please contact: info@pentacolor.hu

1.4 Emergency telephone number:

Egészségügyi Toxikológiai Tájékoztató Szolgálat

Address: 1096, Budapest, Nagyvárad tér 2., Hungary

tel: 06/80/20 11 99 (green number), 06/1/ 476 64 64 (during working hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008

Flam. Sol. 1 H228 Flammable solid

2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008

Contains: aluminium powder (stabilized)

Hazard pictograms:



Signal Word: Danger

Hazard Statements:

H228 Flammable solid.

Precautionary Statements

P102 Keep out of reach of children

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ventilating/light/equipment

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 In case of fire: Use for extinction: Special powder for metal fires/dry sand

2.3 Other hazards:

PBT and vPvB: not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture:

Metal powder. The details below includes all impurities and by-products that contribute to the product classification or that have an occupational exposure limits.

Hazardous Substance(s): aluminium powder (stabilized)

concentration: <= 100%

EC-No.: 231-072-3

CAS-No.: 7429-90-5

Index-No. : 013-002-00-1

Classification according to Regulation (EC) No 1272/2008: Flam. Sol. 1 H228

Registration number : 01-2119529243-45

Refer to Section 16 for full details of the risk phrases, hazard statements and Notas.

SECTION 4. FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

General:

General information No special measures required..

Inhalation:

Supply fresh air; consult doctor in case of symptoms.

Eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor in case of persistent symptoms or complaints.

Skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water. The product is not skin irritating.

Ingestion:

Seek medical treatment.

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

No relevant information is available.

4.3 Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Special powder for metal fires/dry sand . Do not use water.

For safety reasons unsuitable extinguishing agents

Water, foam, ABC powder or CO2.

5.2 Special hazards arising from the substance or mixture

Contact with water liberates extremely flammable gas (hydrogen)

5.3 Advice for firefighters

No special measures required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Avoid causing dust. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow to enter drains or watercourses.

6.3 Methods and materials for containment and cleaning up

Do not use a vacuum cleaner. Collect mechanically. Ensure adequate ventilation. Do not flush with water or aqueous cleaning agents.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be removed regularly.

Information about protection against explosions and fires:

Dust form explosive mixtures with air.

Contact with water liberates extremely flammable gas (hydrogen)

Use explosion-protected equipment and non-sparking tools.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers. Keep only in the original container.

Keep away from oxidizing agents, acids, alkalis.

7.3 Specific end uses

See section 1.2

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

Aluminium powder (Stabilized): 6 resp mg/m³ TLV

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)**CAS 7429-90-5 aluminium powder (stabilized)**

DNEL: Consumers, Long-term - systemic effects, Oral, 3,95 mg/kg bw/day

DNEL: Workers, Long-term - systemic effects, Inhalation 3,72 mg/m³

DNEL: Workers, Long-term - local, Inhalation 3,72 mg/m³

Predicted No Effect Concentration (PNEC)**CAS 7429-90-5 aluminium powder (stabilized)**

Fresh water: depending on chemistry: 48-17800 microgr./l

8.2 Exposure controls**Personal protective equipment****General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

Personal protective equipment**Eye/face protection**

Tightly sealed safety glasses..

Skin protection

Use protective gloves.

Material of gloves

Leather. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Body Protection

Antistatic and fire resistant protective clothing. (EN 351, EN 533, EN 1149-1). Antistatic safety shoes.

Respiratory protection

Use suitable breathing protection if workplace concentration requires.(P1 filter)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- (a) Appearance: powder, Colour: silver
- (b) Odour: odourless
- (c) Odour threshold: not determined
- (d) pH: not applicable
- (e) Melting point/freezing point: 660 C
- (f) Initial boiling point and boiling range: 2647 C
- (g) Flash point: not applicable
- (h) Evaporation rate: not applicable.
- (i) Flammability (solid, gas): Slightly flammable
- (j) Upper/lower flammability or explosive limits: upper: 30 g/m³
- (k) Vapour pressure: not applicable
- (l) Vapour density: not applicable
- (m) Relative density: 2,7 g/cm³ (20 C)
- (n) Solubility(ies): insoluble
- (o) Partition coefficient: n-octanol/water: not applicable.
- (p) Auto-ignition temperature: product is not selfigniting. Ignition temperatur : > 400 C
- (q) Decomposition temperature: not determined.
- (r) Viscosity: not applicable
- (s) Explosive properties: Product is not explosive. However, formation of explosive dust/air mixtures is possible.
- (t) Oxidising properties. not applicable

9.2. Other information

No further relevant information available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions can be expected under normal handling and storage

10.2 Chemical stability

No decomposition if handled and stored according to specifications.

10.3 Possibility of hazardous reactions

Avoid dust clouds, they may form explosible dust-air mixture.

Contact with water releases combustible gases

Reacts with alkalis, acids, halogenes and oxidizing agents.

Reacts with halogen compounds.

Reacts with acids and alkalis releasing hydrogen.

10.4 Conditions to avoid

Keep away from heat and sources of ignition.

10.5 Incompatible materials

Oxidizing agents, acids, alkalis.

10.6 Hazardous decomposition products

No dangerous decomposition products known. Contact with water liberates extremely flammable gas (hydrogen)

SECTION 11. TOXICOLOGICAL INFORMATION

(a) acute toxicity: Based on available data, the classification criteria are not met

CAS 7429-90-5 aluminium powder (stabilized)

LD50/Oral/Rat: 15900 mg/kg

NOAEC/Inhalation/Rat: 10 mg/m³

(b) skin corrosion/irritation: Based on available data, the classification criteria are not met

(c) serious eye damage/irritation: Based on available data, the classification criteria are not met

(d) respiratory or skin sensitisation: Based on available data, the classification criteria are not met

(e) germ cell mutagenicity: Based on available data, the classification criteria are not met

(f) carcinogenicity: Based on available data, the classification criteria are not met

(g) reproductive toxicity: Based on available data, the classification criteria are not met

(h) STOT-single exposure: Based on available data, the classification criteria are not met

- (i) STOT-repeated exposure: Based on available data, the classification criteria are not met
(j) aspiration hazard: Based on available data, the classification criteria are not met

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects Aluminium is not classified ecotoxic.

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Wastes and emptied containers should be disposed of in accordance with local regulations.

EWC: 12 01 04 non-ferrous metal dust and particles

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations. The contaminated packaging after cleaning can be reused.

SECTION 14: Transport information

14.1. UN number 1309

14.2. UN proper shipping name ALUMINIUM POWDER, COATED

14.3. Transport hazard class(es) 4.1

Label(s): 4.1

Road Tunnel Restrictions: E

Transport category : 2

Limited Quantity (LQ): 1 kg

Excepted quantities (LQ): E2 max. net quantity per inner packaging: 30 g, max. net quantity per outer packaging: 500 g

14.4. Packing group II

14.5. Environmental hazards No

14.6. Special precautions for user Flammable solid

Kemler-no.: 40

EMS: F-G, S-G

Segregation groups: powdered metals

Stowage category: A

Handling Code: H1 Keep as dry as reasonably practicable

Segregation Code:

SG17 Stow „separated from” class 5.1

SG25 Stow „separated from” goods of classes 2.1 and 3.

SG26 In addition: from goods of classes 2.1 and 3 when stowed on deck of a containership a minimum distance of two container spaces athwartship shall be maintained, when stowed on ro-ro ships a distance of 6 meter athwartship shall be maintained.

SG32 Stow „away from” liquids halogenated hydrocarbons

SG35 Stow „separated from” acids

SG36 Stow „separated from” alkalis

SG52 Stow „separated from” iron oxide

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not applicable

SECTION 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

List of substances subject to authorization (Annex XIV.)

The ingredients are not listed

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

According to the local regulation.

15.2 Chemical Safety Assessment

Chemical safety assessment has not been carried out.

SECTION 16. OTHER INFORMATION**Data Sources:**

The previously-classified hazardous materials list

Internet database of chemical substances

Safety data sheets of components

LIST OF RELEVAN H-PHRASES IN SECTION 3**H-Phrases**

H228 Flammable solid

Abbreviations:

Flam. Sol. 1 Flammable Solid Category 1

EK / EU European community/European union

EGK European Economic Community

DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration

CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures /

CAS Chemical Abstracts Service

UN / ENSZ United Nations

ADN Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route

RID Règlement international concernant le transport des marchandises dangereuses par chemin de fer

IMDG International Maritime Code for Gangerous Goods

MARPOL International Convention for the Prevention of Pollution From Ships

IBC Intermediate Bulk Container

IATA International Air Transport Association

ICAO International Civil Aviation Organization

PBT Persistent, Bioaccumulative, Toxic

vPvB very Persistent, very Bioaccumulative

This product Safety Data Sheet provides health, safety, and regulatory information. The information contained in this Safety Data Sheet is based on data available to us at the date of issue , and is provided in good faith, and believed to be accurate and reliable at the date of issue, however, no warranty, express or implied is provided. The product is to be used in applications consistent. For any other uses, exposures should be evaluated so that the appropriate handling practices and training programs can be established to ensure safe working conditions and operations. It is the buyer's/user's responsibility to satisfy itself that the product is suitable for the intended use, and to ensure that its activities comply with all federal, state, provincial, or local laws and regulations. Regulatory requirements are subject to change and may differ between European Member States and Nations. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.