

Aluminiumstråd

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Issue date: 30.06.2024



Version: 1

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

1.1. Product identifier

Trade name:	Aluminiumstråd
Chemical name:	Aluminium
CAS-no.:	7429-90-5
EC-no.:	231-072-3
Requirement for safety data sheet:	Not required according to REACH Regulation (EC) No. 1907/2006, Article 31.

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

Relevant identified uses:	Metallizing
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1.3. Details of the supplier of the safety data sheet

Clemco Norge AS
Industriveien 8
1481 Hagan
Norge
Tel.: +47 23 12 51 20
E-post: clemco@clemco.no
www.clemco.no

1.4. Emergency telephone number

Giftinformasjonen (Norway): +47 22 59 13 00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Not classified.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP):

No labelling acquired.

2.3. Other hazards

PBT / vPvB:	This substance does not meet the PBT criteria of REACH regulation, annex XIII. This substance does not meet the vPvB criteria of REACH regulation, annex XIII.
Endocrine disrupting properties:	The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name:	Aluminium
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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:	In case of doubt or persistent symptoms, consult always a physician. Emergency telephone number, see section 1.4.
In case of inhalation:	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if symptoms persist.
In case of skin contact:	Cool skin rapidly with cold water after contact with molten product.
In case of contact with eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist: Get medical advice/attention.
In case of ingestion:	Ingestion is unlikely.

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

In case of inhalation:	Inhalation of fume/vapours: May cause metal fever with flu-like symptoms.
In case of skin contact:	Heated product causes burns.
In case of contact with eyes:	Heated product causes burns. Dust may irritate eyes mechanically.

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

Other information:	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Dry powder. D powder. Sand.
Unsuitable extinguishing media:	Water. Foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard:	Not classified as flammable. Molten product reacts violently with water (moisture). In places with high concentration of powder, it may produce an explosive atmosphere.
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5.3. Advice for firefighters

Protection during firefighting:	Wear a self-contained breathing apparatus (SCBA) and appropriate personal protective equipment (PPE).
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:	Ventilate spillage area. Use personal protective equipment as required. Refer to section 8.
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:	Mechanically recover the product.
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Other information: Dispose of materials or solid residues at an authorized site. Refer to section 13.

6.4. Reference to other sections

For further information refer to section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with hot/molten metal. Avoid breathing fume/dust. Wear personal protective equipment. Refer to section 8.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry place.

Incompatible materials: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limit:

Local name (Norway)	Product identifier	Workplace exposure limit	Comments
Aluminium welding fumes	CAS-nr. 7429-90-5	5 mg/m ³	
Total inhalable dust	-	10 mg/m ³	

Regulatory reference: FOR 2011-12-06 nr. 1358, Regulations concerning Action and Limit values (Norway)

8.2. Exposure controls

Appropriate engineering controls:

Appropriate engineering controls: Provide adequate general and local exhaust ventilation, or use enclosed process. Personal protective equipment must be chosen on the basis of the risk assessment. The supplier of the protective equipment can assist in the evaluation and choice of the equipment.

Eye / face protection:

Eye protection: Face shield.

Standard: EN 175

Hand protection:

Suitable gloves: Heat resistant gloves.

Breakthrough time: Not relevant.

Glove thickness: Not relevant.

Standard: EN 407. EN 12477.

Skin protection:

Suitable protective clothing: Wear suitable protective clothing.

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Respiratory protection:

Respiratory protection: During metallization an approved full face mask with welding glass (DIN 5 or higher) with compressed air supply must be worn to protect against the fume/dust and the welding arc.

Standard: EN 143. EN 12083

Environmental exposure controls:

Avoid release to the environment.

Other information:

Safety shower and eye wash should be available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Silver
Odour:	Odourless
Melting point / freezing point:	> 543 °C
Boiling point:	Not relevant
Flammability:	Not combustible
Explosion limit:	Not relevant
Flash point:	Not relevant
Auto-ignition temperature:	No auto-ignition
Decomposition temperature:	Not relevant
pH:	Not relevant
Kinematic viscosity:	Not relevant
Solubility:	Insoluble in water
Partition coefficient n-octanol/water (Log Pow):	No data available
Vapour pressure:	Not relevant
Density / relative density:	≈ 2.5 g/cm ³
Relative vapour density:	Not relevant
Particle characteristics:	Not relevant

9.2. Other information

Comments: No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Molten product reacts violently with water (moisture). In contact with acids, flammable hydrogen gas may be formed. In places with high concentration of powder, it may produce an explosive atmosphere.

10.4. Conditions to avoid

None known.

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10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Assessment of classification, acute toxicity (oral), Not classified. (Based on available data, the classification criteria are not met.)

Assessment of classification, acute toxicity (dermal): Not classified. (Based on available data, the classification criteria are not met.)

Assessment of classification, acute toxicity (inhalation): Not classified. (Based on available data, the classification criteria are not met.)

Skin corrosion / irritation

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

Serious eye damage/ irritation

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

Respiratory or skin sensitisation

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

Carcinogenicity

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

Reproductive toxicity

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

STOT – single exposure

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

STOT – repeated exposure

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

Aspiration hazard

Assessment of classification: Not classified. (Based on available data, the classification criteria are not met.)

Symptoms of exposure

In case of inhalation: Inhalation of fume/vapours: May cause metal fever with flu-like symptoms.

In case of skin contact: Heated product causes burns.

In case of contact with eyes: Heated product causes burns. Dust may irritate eyes mechanically.

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11.2 Information on other hazards

Endocrine disruptors properties: The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute): Not classified. (Based on available data, the classification criteria are not met.)

Hazardous to the aquatic environment, long-term (chronic): Not classified. (Based on available data, the classification criteria are not met.)

12.2. Persistence and degradability

Persistence and degradability: Not relevant. Inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulative potential: Low bioaccumulation potential.

12.4. Mobility in soil

Mobility: Insoluble in water. Substance sinks in water.

12.5. Results of PBT and vPvB assessment

PBT / vPvB: This substance does not meet the PBT / vPvB criteria of REACH regulation, annex XIII.

12.6. Endocrine disrupting properties

Endocrine disrupting properties: The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.

12.7. Other adverse effects

Additional information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods: Non hazardous waste. Remove to an authorized waste treatment plant.

Additional information: The stated LoW code is indicative and must be considered in relation to the actual condition of the chemical. The final code must be determined by the user, based on the actual use of the chemical.

European List of Waste (LoW) code: 06 04 99 - wastes not otherwise specified
11 01 99 - wastes not otherwise specified

SECTION 14: Transport information

14.1. UN number

Not regulated.

14.2. UN proper shipping name

Not regulated.

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14.3. Transport hazard class(es)

Not regulated.

14.4. Packing group

Not regulated.

14.5. Environmental hazards

Not regulated.

14.6. Special precautions for user

Not regulated.

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

Not applicable.

SECTION 15: Regulatory information

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

References (laws/regulations) (Norway):

Regulation No. 622 on classification labelling and packaging of substances and mixtures of substances (CLP).

Regulation No. 516 on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

FOR 2004-06-01 no 930, Waste Regulations, Ministry of Climate and Environment.

FOR 2009-04-01 no 384, on road transportation of dangerous goods.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
Data sources:	Safety Data Sheet from the supplier/manufacturer.
Prepared by:	SDS-Chemie, Bente Frogner

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.