



Material safety data sheet Aluminium

Revision: No 4. (rev date: 01.10.2019)

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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: **Aluminium**

Synonyms: **Aluminium wire; Aluminium ingots, Aluminium Strips, -sheets, -profiles, -rods, -tubes, Aluminium pyramids, Aluminium half-spheres, Aluminium drops.**

CAS name: Aluminium
CAS number: 7429-90-5
EU name: Aluminium
EC number: 231-072-3
IUPAC name: Aluminium
Type of material: inorganic material
REACH registration number: 01-2119529243-45-0083

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

Metallurgical use, remelting, alloying, casting, deoxy material, production of different finished or semi-finished product, foams, chemical industry and paints production.

1.3 Details of the supplier of the safety data sheet

Company name: Martin Metals Kereskedelmi Kft.
Legal address: Hungary, 8000 Székesfehérvár, Nagyszombati út. 43.
Phone number: (+36) 88 575 842
E-mail: office@martinmetals.eu
Web page: www.martinmetals.eu
Contact person: Mr. Gábor Penk (gabor@martinmetals.eu)

1.4 Emergency contact details

Institution: Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)
Address: Hungary, 1097 Budapest, Nagyváradi tér 2.
Phone: (+36) 1 476 6464; (+36) 80 201 199 Fax: (+36) 1 476 1138,
E-mail: ettsz@okbi.antsz.hu Web page: www.okbi.hu

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation 1272/2008/EK (CLP): **not classified, no "H" phrase**

According to Directive 67/548/EGK: **not classified, no "R" phrase**

2.2 Label elements

According to Regulation 1272/2008/EK (CLP): **none / no warning**

According to Directive 67/548/EGK: **none / no warning**

Legal address: H-8000 Székesfehérvár, Nagyszombati út 43.
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EU VAT No.: **HU13108809** HU VAT No.: 13108809-2-07
Trade registry No.: 07-09-009740 (Reg. Court County Fejér)

Tel: +36-22-503-128 Fax: +36-22-503-129
Tel: **+36-88-575-843** Fax: **+36-88-575-842**
Email: office@martinmetals.eu
WEB: www.martinmetals.eu

Bank: **UNICREDIT BANK HUNGARY Zrt** SWIFT: **BACXHUHB**
IBAN HU56 1091 8001 0000 0003 1617 0006 (HUF)
IBAN HU66 1091 8001 0000 0003 1617 0020 (EUR)
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MARTIN METALS

Kereskedelmi Kft

Hungary

Legal address: **H-8000 Székesfehérvár, Nagyszombati út 43.**

Office (postal address): **8104 Várpalota, Fehérvári út 26.**



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2.3 Other hazards

None

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name: Aluminium

Chemical symbol: Al

CAS number: 7429-90-5

EC number: 231-072-3

Purity: 82-100 % (weight %)

(Composition note: The detailed chemical composition is on the individual certificate.)

4 FIRST AID MEASURES

4.1 Description of first aid measures

First Aid – Inhalation: Remove person to fresh air, rest. Medical attention if necessary.

First Aid – Skin: Thoroughly cleaning and wash water. Medical attention if necessary.

First Aid – Eyes: Flush the eyes with water, holding the eye open. Medical attention if necessary.

First Aid – Ingestion: Wash out mouth with water. Medical attention if necessary.

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

Not known

4.3 Indication of any immediate medical attention and special treatment needed

None

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Extinguishing according to environmental conditions, Dry sand.

Not suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Non-flammable

5.3 Advice for firefighters

Keep the safety distance, wear full protective clothing and use breathing apparatus.

6 ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment and emergency procedures

Non-emergency care staff must use dust protective equipment. Avoid breathing vapour.

6.2 Environmental precautions

Prevent the product entering drains or water courses.

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6.3 Methods and material for containment and cleaning up

Recommendation for contamination separation: Covering water drains.
Recommendation for decontamination: Mechanically
Other information: Store in suitable containers.

6.4 Reference to other sections

Hazardous flue gas, section 5., Personal protection, section 8., Incompatible materials, section 10., Waste treatment methods, section, 13.

7 HANDLING AND STORAGE

General note, Aluminium must be handled safely according to industrial hygiene and regulations Necessary work clothes and protective equipment need to be used.

7.1 Precautions for safe handling

Welding, burning, sawing, brazing, grinding or machining operations may generate fumes and dusts of metal oxides. Provide adequate ventilation. Use appropriate tools. Avoid generation and spreading of dust. Avoid contact with sharp edges and hot surfaces. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Because of the risk of explosion, aluminium ingots, sows and T-bars should be thoroughly dried prior to remelting. Use standard techniques to check metal temperature before handling. Hot aluminium does not present any warning colour change. Exercise great caution, since the metal may be hot. For more information on the handling and storage of aluminium, consult the following documents published by Aluminium Association, 900 19th St., N.W., Washington D.C., 20006: Guidelines for handling molten aluminium; Recommendation for storage and handling of aluminium powders and paste; and Guidelines for handling Aluminium Fines generated during various aluminium fabricating operations.

General work hygiene instructions: Keep out from foodstuff.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Keep away from heat and electricity.
Non-comfortable materials: Attention need to be paid storing with chemicals, avoid t store with alkali materials and acids.
Other storage conditions: Keep it dry, recommended storage temperature 15-25 °C

7.3 Specific end use(s)

No information.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	CAS number	Type	Value	Form
Al (aluminium)	7429-90-5	TWA	-	metal
Al (aluminium)	7429-90-5	TWA	6 mg/m ³	breathable



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8.2 Exposure controls

Special ventilation should be used to convey finely divided metallic dust generated by grinding, sawing etc., in order to eliminate explosion hazards. Maintain dust concentration in ventilation ducts below the lower explosive limit of 40 g/m³ (0.04 oz/ft³). Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

Occupational exposure controls:

Respiratory protection:

Use an approved respirator designed for the hazard, where concentrations exceed exposure limits. The use of both primary and secondary protective equipment is necessary when handling molten metal. Refer to "Aluminum Association" guidelines. Seek advice from local supervisor.

Hand protection:

Use appropriate protective gloves in order to avoid cut and injuries on hand. Heat protective gloves also needed to avoid burn when material is heated.

Eye protection:

Use appropriate protective glasses, if there is a risk material might contact with eye. Beyond that use the necessary protective glasses or mask for welding, soldering or flame cutting. Face guard also needed for sawing, grinding, surfacing.

Skin protection:

Use appropriate sealed if needed, heat-resistant work clothes. Use of protective helmet might needed according to the technology used.

Foot protection:

Use safety boots and leg-guards.

Hygiene precaution:

Wash your hands before start of work process. Keep your work clothes clean and use appropriate safety equipment.

Environmental exposure:

Avoid environmental pollution of the material in solid pieces or in liquid form. Keep the regulation according to valid local emission limits.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Bright, massive, silver-white metal.
Physical state:	Solid
Form:	Solid forms such as: wire; ingots, T-Bars, pyramids, half-spheres, drops
Colour:	Silver-white
Odour:	Odourless
Odour threshold:	Not applicable

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Solubility:	Insoluble in water.
Density:	2702 kg/m ³
pH:	No information found.
% Volatiles by volume 21 °C (70 F):	0
Boiling Point:	2467 °C (4473 F)
Melting Point:	660°C (1220 F)
Flash point:	No information found.
Flammability:	No information found.
Flammability limits in air, % by volume	No information found.
Vapor Density (Air=1):	No information found.
Vapor Pressure (mm Hg):	2.42x10 ⁻⁶ Pa on 660°C (1220 °F) 1.33x10 ⁻⁴ Pa on 1284 °C (2343,2 °F)
Evaporation Rate (BuAc=1):	No information found.
Freezing point:	No information found.
Auto-ignition temperature:	0 %
Decomposition temperature:	No information found.
Percent volatile:	No information found.
Volatile organic compound	No information found.

10 STABILITY AND REACTIVITY

10.1 Reactivity

Stable under ordinary conditions of use and storage.

10.2 Chemical stability

Within normal conditions material is stable and non-reactive.

10.3 Possibility of hazardous reactions

Make reaction with acids and alkali.

10.4 Conditions to avoid

Molten Aluminium may explode on contact with water. In the form of particles, may explode when mixed with halogenated acids, halogenated solvents, bromates, iodates or ammonium nitrate. Aluminium particles on contact with copper, lead or iron oxides can react vigorously with release of heat if there is a source of ignition or intense heat.

10.5 Incompatible materials

Mercury, halocarbons, halogens, water (with bulk aluminum powder) strong oxidizing agents, some acids, bases and many other materials.

10.6 Hazardous decomposition products

Toxic metal fumes may form when heated to decomposition. Welding, burning, sawing, brazing, grinding or machining operations may generate dusts and fumes of metal oxides. In the form of particles (small chips, fine

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turnings, dusts), aluminium reacts with water and air humidity, strong basic solutions, strong acidic solutions, halogenated acids (eg.: hydrofluoric acid), producing flammable hydrogen gas.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No LD50/LC50 information found relating to normal routes of occupational exposure. Solid aluminium does not present an inhalation hazard. Aluminum dusts generated during use are considered nuisance particulates. High concentrations of freshly formed fumes/dusts of metal oxides can produce symptoms of metal fume fever.

Cancer list			
Ingredient	NTP Carcinogen		
	Known	Anticipated	IARC Category
Aluminum Metal (7429-90-5)	No	No	None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Aluminum in solid forms presents a limited hazard for the environment.

12.2 Persistence and degradability

The product is not biodegradable.

12.3 Bioaccumulative potential

The product is not bioaccumulating.

12.4 Mobility in soil

Non applicable.

12.5 Results of PBT and vPvB assessment

None

12.6 Other adverse effects

Aquatic toxicity: Not expected to be harmful to aquatic organisms.

Mobility: Aluminum is not mobile in the environment, unless it comes into contact with an aqueous environment with a pH below 5.5 or above 8.5.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The product is 100 % recyclable, and can be handle with the appropriate EWC code according to local legislation.



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EWC number: EWC (European Waste Code) 1020110, 120103-04-99, 160118, 170402, 191002, 191203
Contaminated packing area: Containers and contaminated areas can be cleaned by physical methods (brush and other cleaning tools).

14 TRANSPORT INFORMATION

ADR: The product is not on the ADR list.
IATA: The product is not on the IATA list.
IMDG: The product is not on the IMDG list.

15 REGULATORY INFORMATION

Labels: Name of aluminium product as in paragraph 1, weight, order number, alloy standard.
EC number: 231-072-3
Information about regulations: According to EC directives or relevant national law. No regulation about labelling (1272/2008/EK). The safety data sheet according to 1907/2006/EK regulation.
Other regulation applies to Hungary: 2000. / XXV bill about chemical safety, and 44/2000 (XII.27.) EÜM regulation.

16 OTHER INFORMATION

Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

*: A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

Disclaimer of expressed and implied warranties:

The content of this datasheet is correct and proper according to the best of our ability but we cannot guarantee our proposals and recommendations as the circumstances of the usage of the material are beyond our scope of activities.

Should you find mistake on the datasheet, despite all our efforts, please notice us without delay.

The datasheet contains safety technical data and information relating to the material (aluminium) and does not guarantee the properties of the products.

This Safety Data Sheet is specifically designed to comply with the requirements of the EU Regulation called REACH - Registration, Evaluation and Authorization of Chemicals (EC No. 1907/2006 of the European Parliament and of the Council of 18 December 2006) and the corresponding country law, and may not comply with the requirements of any other regulations for safe product handling.

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Version history:

- Version 1.1.: Modification in the contact details in connection with chemical safety in paragraph 1.
- Version 2.: Expanding the field of identified uses in paragraph 1.
- Version 3.: Expanding the field of identified uses in paragraph 1.
- Version 4.: Expanding the field of identified uses in paragraph 1.


MARTIN METALS KFT.
Szé. : 8000 Székesfehérvár, Nagyszombati út 43.
Th. : 8104 Várpalota, Fehérvári út 26.
Adószám: 13108809-2-07
8.

Penk Gábor
REACH desk
MARTIN METALS KFT

Legal address: H-8000 Székesfehérvár, Nagyszombati út 43.
Office & logistic center: **H-8104 Várpalota, Fehérvári út 26.**
EU VAT No.: **HU13108809** HU VAT No.: 13108809-2-07
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