

Safety Data Sheet



Aluminium profiles

Apply for alloys Sapa EN AW 6060, 6063, 6005, 6005A, 6082 chrome free finish, with or without powder coating.

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1. Identification of the Substance/Preparation and Company

Product name: Aluminium profiles (Alloys, Sapa EN AW 6060, 6063, 6005, 6005A, 6082, chrome free finish, with or without powder coating)
Supplier: Sapa Profiler AB, 574 81 Vetlanda, Sweden
Phone no: +46 (0)383-941 00
Emergency phone no: -

2. Hazards Identification

Aluminium and aluminium alloys in the form they are supplied are not hazardous to man or the environment.

Dust and fumes may be generated during processing like welding, grinding or cutting. The composition of these will be the same as for the product, except for welding where composition will also depend on welding method and wire.

The addition of wet materials to molten metal may cause explosions (see section 10).

3. Composition/Information on Ingredients

Element	EG-no	CAS no	Symbol	Risk Phrases	Weight%
Aluminium (Al)	231-072-3	7429-90-5	none	none	>97
Silicon (Si)	231-176-9	7440-67-7	none	none	<1,40
Iron (Fe)	231-096-4	7439-89-6	none	none	<0,50
Magnesium (Mg)	231-104-6	7439-95-4	none	none	<1,20
Copper(Cu)	231-159-6	7440-50-8	none	none	<0,35
Manganese(Mn)	231-105-1	7439-96-5	none	none	<1
Titanium (Ti)	231-142-3	7440-32-6	none	none	<0,10
Zinc (Zn)	231-175-3	7440-66-6	none	none	<0,20

Comment: The elements in the powder coating and in the finishing are not obligated to be present, so they are not mentioned.

Trace elements:

Ni, B, Sn, Na, Ca, Li, Sr, P, Pb, Be, Sb, V, Bi, Cr
Cd

Weight%

<0,05
<0,01

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4. First Aid Measures

Inhalation:	Not relevant during normal use. Irritation caused by dust, find fresh air.
Skin contact:	Not relevant during normal use. Wash skin water and/or a mild detergent.
Eye contact:	Not relevant during normal use. Rinse eyes from dust and chip with water/saline solution. See a Physician on persistent feeling of discomfort.
Ingestion:	Not relevant during normal use. Irritation caused by dust: fresh air.

5. Fire Fighting Measures

The metal is not a fire hazard except in finely divided form. Fine particles may be produced from grinding, sawing or dry polishing actions.

Extinguish fire with dry powder or dry sand. Do not use water or halogen.

6. Accidental Release Measures

Avoid handling that generates dust build-up. Material in the form of dust should be collected in suitable containers. Dust can be vacuumed or swept up.

7. Handling and Storage

Handling:	Avoid handling that generates dust build-up. Avoid ignition sources (e.g. welding) in areas with high dust concentrations. Use local exhaust and good ventilation at grinding, sawing and polishing actions.
Storage:	Keep product dry.

8. Exposure Controls/Personal Protection

During normal handling of solid aluminium none of the exposure limits for the other elements present will be exceeded.

At sawing, grinding or polishing operations there should be available eye protection, eye flushing facilities and protective gloves. Special ventilation may be required when conveying metallic particles. Wear a particulate respirator according to norm EN 149:2001, class FFP2 in areas of inadequate ventilation.

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	Occupational exposure limits: ppm	Level limit value (LLV) mg/m ³
Aluminium		
Total dust:	-	5
Respirable dust:	-	2
Copper		
Total dust:	-	1
Respirable dust:	-	0,2

9. Physical and Chemical Protection

Density Kg/m³:	2600-2900
Melting range °C:	450-660
Colour:	Colour can vary.
Form:	Solid.

10. Stability and Reactivity

Aluminium alloys are stable under normal conditions of use, storage and transport. Molten aluminium may react violently with water, rust, certain metal oxides and nitrates.

Conditions to avoid: Avoid generating sparks and other ignition sources (e.g. welding) in areas with high dust concentrations. Particles of the product suspended in air may readily propagate flame, generate considerable pressure and/or explode. Both ignition sensitivity and the violence of explosion increase with decreasing particle size.

Materials to avoid: Acids, bases, oxidising agents, halogenated hydrocarbons and metal oxides (see below).

Hazardous decomposition products: A reaction with acids and bases leads to the formation of flammable hydrogen gas (H₂). Aluminium metal may react violently with oxidising agents, halogenated hydrocarbons and metal oxides, with much heat generation.

Wet product will form flammable hydrogen gas if added to molten aluminium, due to decomposition of water.

Treatment of powder coated goods generating heat and temperature over 250°C are always risk that it will form toxic gases, for example nitrous gases. Example of treatment are grinding, sawing and remelting etc.

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11. Toxicological Information

Inhalation:	Finely divided dust may irritate and dehydrate mucous membranes.
Skin contact:	Dust may irritate and dehydrate the skin.
Eye contact:	Dust may irritate and lead to dryness.
Ingestion:	Dust may irritate and dehydrate mucous membranes.

12. Ecological information

Mobility:	Aluminium has poor mobility under normal environment.
Bioaccumulation:	Minimal.
Persistence	Not relevant for the elements in alloy.
Eco-toxicity:	Not classified according to EU Classification system. No eco-toxicity demonstrated by standard OECD test protocols.
Other Information:	The product is not characterised as dangerous for the environment.

13. Disposal Considerations

Aluminium should be recycled.

14. Transport Information

Other Information:	Not subject to classification.
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15. Regulatory Information

Symbol:	Not subject to classification.
R-phrases	None.
S-phrases	None.

16. Other Information

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