

Aluminium alloys (billets and profiles)

SECTION 1: Designation of the substance or the mixture and the company

1.1 Product identifier

Trade name: Aluminium alloys (billets and profiles)

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

Use of the substance/mixture:

Billets: Semi-finished products for the production of profiles

Profiles: Use according to the type of profile in the industrial sector

Uses advised against:

1.3 Details on the supplier providing the safety data sheet

Producer/Supplier:

Hammerer Aluminium Industries

Lamprechtshausenerstraße 69

5282 Ranshofen, Austria

Tel.: +43 7722 891-0

1.4 Emergency number:

+43 7722 891-0

SECTION 2: Potential hazards

2.1 Classification of the substance or mixture

Classification according to regulation (EG) No. 1272/2008

The product is not classified according to the CLP regulation.

2.2 Labelling elements

Labelling according to regulation (EG) No. 1272/2008 is not applicable

Hazard pictograms are not applicable

Signal word is not applicable

Hazard warnings are not applicable

Safety instructions are not applicable

2.3 Further hazards

none

Results of the PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

SECTION 3: Composition/Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Description: Mixture of aluminium and below mentioned additions (alloy components)

Elements	CAS number	EINECS number	Percentage
Aluminium (Al)	7429-90-5	231-072-3	
Magnesium (Mg)	7439-95-4	231-104-6	
Silicon (Si)	7440-21-3	231-130-8	
Iron (Fe)	7439-89-6	231-096-4	
Manganese (Mn)	7439-96-5	213-105-1	The percentage
Zinc (Zn)	7440-90-5	231-175-3	varies according to
Magnesium oxide (MgO)	1309-48-4	215-171-9	alloy according to
Aluminium oxide (Al ₂ O ₃)	1344-28-1	215-691-6	the European Norm
Copper (Cu)	7440-50-8	231-159-6	EN 573-2
Chromium (Cr)	7440-47-3	231-157-5	
Zinc oxide (ZnO)	1314-13-2	215-222-5	
Titanium (Ti)	7440-32-6	231-42-3	
Zirconium (Zr)	7440-67-7	231-176-9	
Vanadium (V)	7440-62-2	231-171-1	

Additional information:

Non-flammable. Insoluble in water.

SECTION 4: First-aid measures

4.1 Description of the first-aid measures

General information: No special measures required.

After inhalation:

Due to its compact shape (billet, profile) inhalation of the product is not possible. If, however, dust etc. is produced and inhaled during processing of the product and causes discomfort, get medical attention.

After skin contact:

In general, the product does not irritate the skin.

Wash off with warm water and soap.

After eye contact:

Due to its compact shape (billet, profile) eye contact with the product is not possible when used as intended. If, however, dust etc. is produced during processing of the product and gets into the unprotected eye, the eye should be rinsed for 10 minutes under running water with the lids wide open, while protecting the uninjured eye, and medical treatment should be provided.

After ingestion:

Due to its compact shape (billets, profile) ingestion of the product is not possible. If, however, dust etc. is produced and ingested during processing of the product, rinse out mouth and spit out the liquid.

Do not induce vomiting. Provide medical treatment.

4.2 Most important acute and delayed symptoms and effects

No further relevant information available

4.3 Information on immediate medical assistance or special treatment

Acute poisoning is unknown, regardless of its route of exposure

SECTION 5: Fire-fighting measures**The compact shape (billet, profile) is not flammable.**

In cases where powder, dust and fine chips etc. are produced during processing and catch fire, points 5.1 to 5.3 of this safety data sheet apply to fire-fighting.

5.1 Extinguishing agents**Suitable extinguishing agents:**

Dry sand

Extinguishing powder for fire class D (metal fire powder)

Unsuitable extinguishing agents for safety reasons:

Water

Dry extinguishing powder (extinguishing powder ACB + BC)

Foam

Carbon dioxide

5.2 Special hazards arising from the substance or the mixture

No further information available

5.3 Information on fire-fighting**Special protective equipment:**

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental measures

Not required.

6.3 Methods and material for containment and cleaning up

Not required.

6.4 Reference to other sections

For information on personal protective equipment see Section 8.

For information on disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures required

Information on fire and explosion protection:

No special measures required. The compact shape is not flammable

7.2 Conditions for a safe storage taking into consideration incompatibilities

Storage:

Requirements for storage rooms and containers:

No special requirements.

Information on combined storage: Do not store together with acids.

Keep away from oxidizing agents.

Further information on storage conditions: none

Storage class: 10 - 13 (Source: GESTIS substance database)

Classification according to Industrial Safety Regulation (BetrSichV):
not applicable

VbF class: not applicable

7.3 Specific end uses

Billets: Semi-finished products for extrusion plants

No further relevant information available

SECTION 8: Exposure limitation and monitoring/Personal protective equipment

Additional information on the design of technical systems:

No further information, see Section 7.

8.1 Parameters to be monitored

None. Applies to dust-producing processing, not to its compact shape.

8.2 Exposure limitation and monitoring

Personal protective equipment:

General protective and hygienic measures: none

Eye protection / Face protection:

Tightly fitting safety goggles during processing of billets and profiles leading to dust, chips etc.

Skin protection:

Hand protection: Mechanical protective glove – sharp burr on the cutting edges possible.

Body protection: Wear safety shoes due to the mechanical hazards arising from the mass.

Respiratory protection: Not required due to compact shape. Wear dust masks in case of processing methods with dust formation.

Thermal hazards: none

SECTION 9: Physical and chemical properties:

9.1 Information on the basic physical and chemical properties

General information

Appearance:

Physical state: hard and compact with different shapes

Colour: silver-grey

Odour: odourless

Odour threshold: not determinable

Change of state

Melting point: approx. 660°C

Boiling point/range*: approx. 2400°C

Flashpoint: not applicable

Flammability (solid, gas): not determined

Ignition temperature: not determined

Decomposition temperature: not determined

Explosion limits:

Lower: -
Upper: -

Density at 20°C: approx. 2.7 g/cm³
Relative density: not determined
Rel. vapour density: not applicable
pH value: not applicable

Evaporation rate: not applicable

**Solubility in/miscibility
with water:** insoluble

**Distribution coefficient:
(n octanol/water)** not applicable

Viscosity:

dynamic: not applicable
kinematic: not applicable

9.2 Further information No further relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity****10.2 Chemical stability**

stable under indicated storage conditions.

Thermal decomposition / Conditions to avoid:

no decomposition when used as intended

10.3 Possibility of hazardous reactions

Reaction with strong oxidizing agents, strong acids and bases.

10.4 Conditions to avoid

no further relevant information known

10.5 Incompatible materials

Oxidizing agents, strong acids and bases

10.6 Hazardous decomposition products

Metallic oxide smoke

SECTION 11: Toxicological data

11.1 Data on the hazard classes according to the regulation (EG)

No. 1272/2008

Acute toxicity

No effects known

Primary irritant effect:

Skin corrosivity and irritant effect

no irritant effect

Serious eye damage/irritation

no irritant effect

Sensitization of the respiratory tract/skin

no effect known

Nucleus mutagenicity

none

Carcinogenicity

none

Reproductive toxicity

none

Specific target organ toxicity for a single exposure

none

Specific target organ toxicity with repeated exposure

none

Hazard of aspiration

none

Additional toxicological information:

The product is not subject to labelling due to the calculation method of the general classification guidelines for preparations of the EG in the latest version. According to our experience and the information available, the product does not have any harmful effects when handled and used properly.

11.2 Information on other hazards

none known

SECTION 12: Environmental information:

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and decomposability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in the soil: No further relevant information available.

Further ecological information:

General information:

The product is not water contaminating.

12.5 Results of the PBT and vPvP assessment

PBT: not applicable

vPvP: not applicable

12.6 Endocrine disrupting properties: not applicable

12.7 Other harmful effects

No further relevant information available

SECTION 13: Information on disposal

13.1 Waste treatment methods

Recommendation: Residues of billets and profiles due to further processing are precious raw materials and can be returned to the remelting plant of the company HAI for recycling.
In case of disposal the respective legal and official regulations must be complied with.

No hazardous waste according to the waste list regulation (AVV).

Uncleaned packaging:

Recommendations: not applicable

SECTION 14: Information on transport

14.1	UN number or ID number	not applicable
14.2	Proper UN shipping name	not applicable
14.3	Transport hazard classes	not applicable
14.4	Packaging group	not applicable
14.5	Environmental risks Marine pollutant	no
14.6	Special precautions for the user	not applicable
14.7	Bulk transport by sea according to IMO instruments *	not applicable

SECTION 15: Regulations

15.1 Regulations on safety, health and environmental protection/specific regulations for the substance or the mixture

Labelling according to regulation (EG) No. 1272/2008	not applicable
Hazard pictograms	not applicable
Signal word	not applicable
Hazard warnings	not applicable
Classification according to VbF:	not applicable
Classification according to Industrial Safety Regulation (BetrSichV):	not applicable
Water hazard class:	not water contaminating
Substance of very high concern (SVHC) according to REACH-VO (EG) No. 1907/2006:	not applicable

15.2 Safety assessment of the substance: A safety assessment of the substance has not been carried out.

SECTION 16: Further information

The information is based on our current state of knowledge, however, does not represent a confirmation of product properties and does not justify a contractual legal relationship.

Relevant sentences:

Not applicable

Data sheet exhibiting area:

Quality and environmental management department

Contact:

Head of quality and environmental management

Abbreviations:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification, labelling and packaging

EINECS: European Inventory of Existing Commercial Chemical Substances

GESTIS (IFA): Substance database of the Institute for Occupational Safety and Health of the German Social Accident Insurance

GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

REACH-VO: Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

SVHC: Substances of Very High Concern

VbF: Regulation on flammable liquids, Austria

vPvB: very Persistent and very Bioaccumulative