Aluminium Alloy

Safety Data Sheet

Issue date: 19/02/2026 *Version:* 1

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Aluminium Alloy
Use: For use in Premium Roofing Aluminium Flexislates and aluminium fabrications.
Supplier: Associated Lead Mills Ltd, Unit B, Bingley Road, Hoddesdon, Hertfordshire, EN11 0NX
TEL: 01992 444100
Email: enquiries@leadsales.co.uk

1.2. Composition/Information on Ingredients

Substance	C%
Aluminium	≥ 99%
Copper, manganese, silicon, magnesium, magnesium & silicon, zinc, lithium/other	≤1%

SECTION 2: Hazards Identification

2.1. Main Hazards

No data available.

2.2. Other Hazards

No data available.

SECTION 3: First Aid Measures

3.1. Description of First Aid Measures

First Aid Measures After Inhalation: No data available.
First Aid Measures After Skin Contact: No data available.
First Aid Measures After Eye Contact: No data available.
First Aid Measures After Ingestion: No data available.

3.1.1. Protection of First Aiders

No data available.

3.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Effects After Inhalation: No data available.
Symptoms/Effects After Skin Contact: No data available.
Symptoms/Effects After Eye Contact: No data available.
Symptoms/Effects After Ingestion: No data available.

3.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Antidote: No data available.
Special Treatment: No data available.

SECTION 4: Firefighting Measures

4.1. Extinguishing Media

Suitable Extinguishing Media: No data available.
Unsuitable Extinguishing Media: No data available.

4.2. Hazards Arising from the Substance or Mixture

Hazards from the Substance or Mixture: No data available.
Hazardous Thermal Decomposition Products: No data available.

4.3. Advice for Firefighters

Special Protective Actions for Firefighters: No data available.
Special Protective Equipment for Firefighters: No data available.
Additional Information: No data available.

SECTION 5: Accidental Release Measures

5.1. Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel: No data available.
For Emergency Responders: No data available.

5.2. Environmental Precautions

Recycle or re-use the product.

5.3. Methods and Materials for Containment and Cleaning Up

For Containment: No data available.
Methods for Cleaning Up: No data available.
Other Information: No data available.

SECTION 6: Handling and Storage

6.1. Precautions for Safe Handling

Protective Measures: No data available.
Hygiene Measures: No data available.

6.2. Conditions for Safe Storage, Including any Incompatibilities

If being stored for extended periods, aluminium should be lightly oiled and stored vertically to ensure air circulation over all surfaces. Aluminium should be stored indoors, in a clean, dry, dust and contaminant free environment and not be in contact with other materials.

6.3. Specific End Use(s)

No data available.

SECTION 7: Exposure Controls/Personal Protection

7.1. Control Parameters

Occupational Exposure Limits: No data available.
Recommended Monitoring Procedures: No data available.
Air Contaminants Formed: No data available.
Control Banding: No data available.
DNEL & PNEC: No data available.

7.2. Exposure Controls

Appropriate Engineering Controls: No data available.
Thermal Hazards: No data available.
Environmental Exposure Controls: No data available.

7.2.1. Individual Protection Measures

Personal Protective Equipment Symbol(s): No data available.
Hygiene Measures: No data available.
Hand Protection: No data available.
Body Protection: No data available.
Other Skin Protection: No data available.
Eye/Face Protection: No data available.
Respiratory Protection: No data available.

SECTION 8: Physical and Chemical Properties

Physical State: No data available.
Colour: No data available.
Odour: No data available.
Odour Threshold: No data available.
pH: No data available.
Melting Point: 660.2°C
Freezing Point: No data available.
Boiling Point: 2480°C
Flash Point: No data available.
Evaporation Rate: No data available.
Flammability: No data available.
Vapour Pressure: No data available.
Vapour Density: No data available.
Density: 2.6898g/cm³
Solubility: No data available.
Particion Coefficient n-octanol/water: No data available.
Auto-Ignition Temperature: No data available.
Decomposition Temperature: No data available.
Viscosity (kinematic): No data available.

Viscosity (dynamic): No data available.
Explosive Properties: No data available.
Oxidising Properties: No data available.
Explosive Limits: No data available.
Other Information: Atomic number 13
Atomic weight 26.98g/mol
Valency 3
Crystal structure FCC
Mean specific heat 0.219cal/g.°C
Thermal conductivity 0.57cal/cms.°C
Co-efficient of linear expansion $23.5x10^{-6}$/°C
Electrical resistivity at 20°C 2.69μΩ.cm
Modulus of elasticity 68.3GPa
Poisson's Ratio 0.34
Tensile strength 90MPa

SECTION 9: Stability and Reactivity

Reactivity: No data available.
Chemical Stability: No data available.
Possibility of Hazardous Reactions: No data available.
Conditions to Avoid: No data available.
Incompatible Materials: No data available.
Hazardous Decomposition Products: No data available.

SECTION 10: Toxicological Information

10.1. Information on Toxicological Effects

Acute Toxicity: Non-toxic.
Skin Irritation/Corrosion: No data available.
Serious Eye Damage/Irritation: No data available.
Respiratory or Skin Sensitisation: No data available.
Germ Cell Mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive Toxicity: No data available.
Teratogenicity: No data available.
Specific Target Organ Toxicity (single exposure): No data available.
Specific Target Organ Toxicity (repeated exposure): No data available.
Aspiration Hazard: No data available.

10.2. Information on the Likely Routes of Exposure

No data available.

10.3. Potential Acute Health Effects

Eye Contact: No data available.
Inhalation: No data available.
Skin Contact: No data available.
Ingestion: No data available.

10.4. Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Eye Contact: No data available.
Inhalation: No data available.
Skin Contact: No data available.
Ingestion: No data available.

10.5. Potential Delayed, Immediate and Chronic Effects from Short- and Long-Term Exposure

10.5.1. Short Term Exposure

Immediate Effects: No data available.
Delayed Effects: No data available.

10.5.2. Long Term Exposure

Immediate Effects: No data available.
Delayed Effects: No data available.

10.5.3. Potential Chronic Health Effects

No data available.

10.6. Conclusion/Summary

No data available.

SECTION 11: Ecological Information

Toxicity: Aluminium is not only non-toxic but also does not release any odours or taint products with which it is in contact.
Persistence and Degradability: No data available.
Bio accumulative Potential: No data available.
Mobility in Soil: No data available.
Results of PBT and vPvB Assessment: No data available.
Other Adverse Effects: No data available.

SECTION 12: Disposal Considerations

12.1. Waste Treatment Methods

12.1.1. Product

Methods of Disposal: Recycle or reuse product.
Hazardous Waste: No data available.

12.1.2. Packaging

Methods of Disposal: No data available.
Special Precautions: No data available.

SECTION 13: Transport Information

13.1. Transport Information

No data available.

13.2. Special Precautions for User

Overland Transport: No data available.
Transport by Sea: No data available.
Air Transport: No data available.
Inland Waterway Transport: No data available.
Rail Transport: No data available.

13.3. Transport in Bulk according to Annex II of MARPOL and the IBC Code

No data available.

SECTION 14: Regulatory Information

14.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

14.1.1. Regulations

EN Standards for Aluminium: EN485-1 Technical conditions for inspection and delivery.
EN485-2 Mechanical properties.
EN485-3 Tolerances for hot rolled material.
EN485-4 Tolerances for cold rolled material.
EN515 Temper designations.
EN573-1 Numerical alloy designation system.
EN573-2 Chemical symbol designation system.
EN573-3 Chemical compositions.
EN573-4 Product forms in different alloys.

14.1.2. Container Information

No data available.

14.1.3. Provisions

No data available.

14.2. Chemical Safety Assessment

No data available.

SECTION 15: Other Information

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the supplier in respect of any action taken by any third party in reliance thereon.

The information provided in this datasheet has been drawn from various recognised sources, including EN standards, recognised industry references and manufacturer's data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Advice given by the supplier to any third party is given for that party's assistance only and without liability on the part of the supplier. All transactions are subject to the supplier's current Terms and Conditions of Business. The extent of the supplier's liabilities to any customer is clearly set out in those terms and conditions.