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# SAFETY DATA SHEET (SDS)

## GALVALUME® / ALUZINC STEEL COIL (GL COIL)

**Product Name:** Galvalume Steel Coil (GL Coil)
**Product Type:** 55% Aluminum-Zinc Alloy Coated Carbon Steel Coil
**Supplier:** Basekim
**Document Type:** SDS / MSDS Technical Draft
**Revision Date:** June 2026

**Disclaimer:** This SDS is a professionally formatted draft based on publicly available technical information and typical industry data for 55% Al-Zn coated steel coils. It is not an official manufacturer-issued SDS and should not be used for regulatory compliance without verification from the supplier.

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Name:** Galvalume Steel Coil (GL Coil)

### Synonyms

- Aluzinc Steel Coil
- Aluminum-Zinc Alloy Coated Steel
- GL Coil
- AZ Steel Coil
- 55% Al-Zn Steel Coil

### Recommended Use

- Roofing
- Wall cladding
- Building panels
- Industrial fabrication
- Agricultural buildings
- Appliances
- Automotive components

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# SECTION 2: HAZARD IDENTIFICATION

## GHS Classification

As supplied in solid form, this product is generally **not classified as hazardous**.

## Hazards During Processing

Processing operations such as:

- Welding
- Laser cutting
- Plasma cutting
- Grinding
- Sanding
- Burning

may generate hazardous dusts and fumes.

## Potential Hazardous Components Generated

- Aluminum oxide fumes
- Zinc oxide fumes
- Iron oxide fumes
- Metal particulates

## Signal Word

**Warning**

## Hazard Statements

- Dust may cause mechanical irritation.
- Heating may generate hazardous metal fumes.
- Welding fumes may cause respiratory irritation.
- Excessive inhalation of zinc oxide fumes may cause metal fume fever.

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### Precautionary Statements

- Avoid breathing dust and fumes.
- Use local exhaust ventilation.
- Wear appropriate respiratory protection.
- Wear safety glasses and protective gloves.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS Number | Typical Content |
|---|---|---|
| Iron (Fe) | 7439-89-6 | Balance |
| Aluminum (Al) | 7429-90-5 | Coating Component |
| Zinc (Zn) | 7440-66-6 | Coating Component |
| Silicon (Si) | 7440-21-3 | Coating Component |
| Carbon (C) | 7440-44-0 | <2% |
| Manganese (Mn) | 7439-96-5 | Variable |
| Phosphorus (P) | 7723-14-0 | Trace |
| Sulfur (S) | 7704-34-9 | Trace |

Typical coating composition:

- Aluminum: approximately 55%
- Zinc: approximately 43.5%
- Silicon: approximately 1.5%

## SECTION 4: FIRST AID MEASURES

### Inhalation

If dust or fumes are inhaled:

- Move person to fresh air.
- Keep comfortable for breathing.
- Seek medical attention if symptoms persist.

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### Skin Contact

- Wash skin with soap and water.
- Treat cuts or abrasions appropriately.

### Eye Contact

- Flush eyes with clean water for at least 15 minutes.
- Obtain medical attention if irritation persists.

### Ingestion

Not a normal route of exposure.

## SECTION 5: FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use media appropriate for surrounding materials:

- Water spray
- Foam
- Dry chemical
- Carbon dioxide

### Fire and Explosion Hazards

Solid steel product is non-combustible.

Thermal decomposition may produce:

- Aluminum oxide fumes
- Zinc oxide fumes
- Iron oxide fumes

### Firefighter Protection

Use self-contained breathing apparatus (SCBA).

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# SECTION 6: ACCIDENTAL RELEASE MEASURES

## Solid Product

No special environmental precautions required.

## Dust or Processing Waste

- Avoid dust generation.
- Collect mechanically.
- Dispose according to local regulations.

# SECTION 7: HANDLING AND STORAGE

## Handling

- Handle coils using approved lifting equipment.
- Beware of sharp edges.
- Avoid inhalation of dust and fumes generated during fabrication.

## Storage

- Store in dry, well-ventilated areas.
- Protect from standing water and condensation.
- Avoid exposure to corrosive chemicals.
- Prevent mechanical damage to coating.

# SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

## Occupational Exposure Limits

### Zinc Oxide Fume

- OSHA PEL: 5 mg/m³

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### Aluminum Oxide Dust

- OSHA PEL: 15 mg/m³ (total dust)

### Iron Oxide Fume

- OSHA PEL: 10 mg/m³

## Engineering Controls

- Local exhaust ventilation
- Welding fume extraction
- Dust collection systems

## Personal Protective Equipment

### Eye Protection

- Safety glasses
- Face shield during cutting or grinding

### Hand Protection

- Cut-resistant gloves

### Respiratory Protection

- NIOSH-approved respirator where required

### Foot Protection

- Safety shoes with steel toe protection

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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property | Value |
|---|---|
| Appearance | Metallic Coil |
| Color | Silver-gray |
| Odor | Odorless |
| Physical State | Solid |
| Density | Approximately 7.8 g/cm³ |
| Solubility | Insoluble in water |
| Flash Point | Not Applicable |
| Auto-Ignition | Not Applicable |
| Explosive Properties | Not Explosive |
| Melting Point (Steel) | 1370–1510°C |
| Melting Point (Al-Zn Coating) | Approx. 600°C Process Temperature |

# SECTION 10: STABILITY AND REACTIVITY

## Stability

Stable under normal storage and handling conditions.

## Conditions to Avoid

- Excessive heat
- Open flame during fabrication
- Contact with strong acids

## Hazardous Decomposition Products

- Zinc oxide fumes
- Aluminum oxide fumes
- Iron oxide fumes

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# SECTION 11: TOXICOLOGICAL INFORMATION

## Acute Effects

### Dust Exposure

May cause:

- Eye irritation
- Nose irritation
- Throat irritation

### Fume Exposure

Welding or thermal cutting may cause:

- Headache
- Fever
- Chills
- Nausea
- Metal fume fever

## Chronic Effects

Repeated inhalation of metal fumes may contribute to respiratory irritation.

# SECTION 12: ECOLOGICAL INFORMATION

## Environmental Impact

Solid product presents minimal environmental risk.

## Persistence

Metal product is stable under normal environmental conditions.

## Mobility

Not expected to be mobile in soil.

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### Bioaccumulation

Not expected in solid form.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Product Disposal

Recycle whenever possible.

### Waste Streams

- Scrap steel
- Fabrication off-cuts
- Dust collection residues

Dispose according to national and local regulations.

## SECTION 14: TRANSPORT INFORMATION

### UN Number

Not Regulated

### ADR/RID

Not Dangerous Goods

### IMDG

Not Dangerous Goods

### IATA

Not Dangerous Goods

### Transport Precautions

- Secure coils against movement.
- Prevent physical damage.
- Use approved lifting and restraint methods.

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# SECTION 15: REGULATORY INFORMATION

May be subject to:

- OSHA Hazard Communication Standard
- EU REACH Regulation
- EU CLP Regulation
- Local occupational exposure regulations

Regulatory status depends on destination country.

# SECTION 16: OTHER INFORMATION

## Typical Product Specifications

| Property | Value |
|---|---|
| Coating Composition | 55% Al / 43.5% Zn / 1.5% Si |
| Coating Weight | AZ30–AZ150 g/m² |
| Thickness Range | 0.12–2.5 mm |
| Width Range | 750–1250 mm |
| Standards | ASTM A792M, EN 10375, JIS G3321 |
| Surface Options | Regular, Minimum, Large, Zero Spangle |
| Surface Treatment | Chromated, Passivated, Oiled, Non-Oiled, AFP |

## Typical Applications

- Roofing systems
- Wall cladding
- Agricultural buildings
- Industrial buildings
- Home appliances
- Automotive components
- Coastal infrastructure