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Chemical Production Co.Ltd

SAFETY DATA SHEET (SDS)

Galvanized Steel Coil (GI Coil)

Prepared for: Basekim Galvanized Steel Coil
Product Type: Zinc-Coated Carbon Steel Coil
Revision: Draft SDS Template (Not Manufacturer-Certified)

SECTION 1: IDENTIFICATION

Product Name: Galvanized Steel Coil (GI Coil)

Synonyms:

- GI Coil
- Zinc-Coated Steel Coil
- Hot-Dip Galvanized Steel Coil
- Electro-Galvanized Steel Coil

Recommended Uses:

- Construction
- Roofing
- Cladding
- Automotive components
- Appliances
- Agricultural structures
- Industrial fabrication

Supplier: Basekim

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SECTION 2: HAZARD IDENTIFICATION

GHS Classification

As supplied in solid form, galvanized steel coil is generally not classified as hazardous.

Hazards During Processing

Operations such as:

- Welding
- Cutting
- Grinding
- Burning
- Machining

may generate:

- Metal dust
- Zinc oxide fumes
- Iron oxide fumes

Signal Word

Warning

Hazard Statements

- Heating may generate hazardous metal fumes.
- Dust generated during processing may irritate eyes and respiratory tract.
- Welding or thermal cutting may produce metal fume fever.

Precautionary Statements

- Avoid breathing dusts and fumes.
- Use adequate ventilation.
- Wear suitable eye protection.
- Wear protective gloves during handling.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Typical Content
Iron (Fe)	7439-89-6	Balance
Zinc Coating (Zn)	7440-66-6	Surface coating
Carbon	7440-44-0	<2%
Manganese	7439-96-5	Variable
Silicon	7440-21-3	Trace
Phosphorus	7723-14-0	Trace
Sulfur	7704-34-9	Trace

Exact composition varies by grade and specification.

SECTION 4: FIRST-AID MEASURES

Inhalation

Dust or fumes generated during processing:

- Move person to fresh air.
- Seek medical attention if symptoms persist.

Skin Contact

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

Eye Contact

- Flush with water for at least 15 minutes.
- Seek medical attention if irritation persists.

Ingestion

Not a likely route of exposure.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire:

- Water spray
- Dry chemical
- Foam
- Carbon dioxide

Special Hazards

Heating above normal processing temperatures may generate:

- Zinc oxide fumes
- Metal oxide fumes

Protective Equipment

Firefighters should wear self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Solid product presents minimal environmental hazard.

For generated dust:

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

SECTION 7: HANDLING AND STORAGE

Handling

- Use lifting equipment suitable for steel coils.
- Avoid sharp edges.
- Avoid breathing dust or fumes during processing.

Storage

- Store in dry conditions.
- Protect from moisture.
- Prevent physical damage to zinc coating.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Zinc Oxide Fume

OSHA PEL: 5 mg/m³ (respirable fraction)

Iron Oxide Fume

OSHA PEL: 10 mg/m³

Engineering Controls

- Local exhaust ventilation
- Fume extraction systems
- Dust collection systems

PPE

Eyes

- Safety glasses
- Face shield during cutting/grinding

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Hands

- Cut-resistant gloves

Respiratory

- NIOSH-approved respirator where ventilation is inadequate

Body

- Protective clothing
- Safety footwear

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Metallic steel coil
Color	Silver-gray
Odor	Odorless
Physical State	Solid
Melting Point (Steel)	Approx. 1370–1510°C
Zinc Melting Point	419.5°C
Density	Approx. 7.8 g/cm³
Solubility in Water	Insoluble
Flash Point	Not applicable
Auto-Ignition	Not applicable
Explosive Properties	Not explosive

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SECTION 10: STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

- Excessive heat
- Welding without ventilation
- Strong acids

Hazardous Decomposition Products

- Zinc oxide fumes
- Iron oxide fumes
- Metal oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Inhalation of dust
- Inhalation of welding fumes
- Eye contact with particulates

Acute Effects

Dust

- Eye irritation
- Respiratory irritation

Zinc Oxide Fume

May cause metal fume fever symptoms:

- Fever
- Chills
- Muscle aches
- Headache

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Chronic Effects

Prolonged exposure to metal fumes may affect respiratory health.

SECTION 12: ECOLOGICAL INFORMATION

Solid product is generally stable.

Avoid uncontrolled release of:

- Zinc-containing dust
- Grinding residues
- Process waste

No significant bioaccumulation expected from solid product.

SECTION 13: DISPOSAL CONSIDERATIONS

Recycle whenever possible.

Dispose of:

- Metal scrap
- Dust
- Grinding residues

according to local, regional, and national regulations.

Steel and zinc-coated steel are highly recyclable.

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SECTION 14: TRANSPORT INFORMATION

Not regulated as dangerous goods for transport under:

- ADR
- IMDG
- IATA
- DOT

Transport securely to prevent coil movement and physical injury.

SECTION 15: REGULATORY INFORMATION

May be subject to:

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

Specific regulatory status depends on product grade and destination country.

SECTION 16: OTHER INFORMATION

Technical Specifications Reported by Supplier

- Zinc coating: 20–600 g/m²
- Thickness: 0.14–6.0 mm
- Standards include ASTM A653M, JIS G3302, EN 10327, and EN 10346
- Available grades include DX51D+Z, DX52D+Z, DX53D+Z, S220GD+Z, and S250GD+Z.