



Material Safety Data Sheet (MSDS)

Cold Rolled Coil (CRC)

Section 1: Identification

Product Name: Cold Rolled Coil (CRC)

Synonyms: CRC Steel, Cold Reduced Steel Sheet

Chemical Family: Iron/Steel Alloy

Supplier / Manufacturer:

Basekim Kimyasal Ürünler LTD

Turan Gunes Blv. Ilkbahar Mah. Sinpas Altinoran Tower 2, Floor 1, Unit 146
Ankara, Turkey

Emergency Contact Numbers:

- **Transportation Emergency (Logistics):** 88552948
- **Health Emergency Contact:** +90 312 514 7055 / +90 312 514 7081
- **MSDS Requests:** +90 312 514 7055 / +90 312 514 7081

Section 2: Hazard Identification

GHS Classification (for processing operations only):

- Eye Irritation – Category 2B
- Skin Irritation – Category 2
- Specific Target Organ Toxicity (Respiratory) – Category 3

Signal Word: *Warning*

Hazard Statements:



- H315: Causes skin irritation (sharp edges, contact with metal dust).
- H319: Causes eye irritation.
- H335: May cause respiratory irritation if dust or fumes are inhaled during welding, grinding, or cutting.

Precautionary Statements:

- P261: Avoid inhalation of dust, fumes, and vapors.
- P280: Wear protective gloves, safety goggles, and protective clothing.
- P304 + P340: IF INHALED – remove to fresh air and keep at rest.
- P302 + P352: IF ON SKIN – wash with plenty of soap and water.
- P305 + P351 + P338: IF IN EYES – rinse cautiously with water for several minutes.

Primary Hazards in Solid Form:

- Not hazardous under normal handling.
- Risk arises primarily during downstream processing.
- Physical hazard: Sharp edges may cause cuts or lacerations.

Section 3: Composition / Information on Ingredients

Substance: Cold Rolled Steel Coil (Solid Metal Alloy)

Component	Typical Concentration (%)
Iron (Fe)	85 – 99
Carbon (C)	< 0.25
Manganese (Mn)	0.2 – 2.0
Silicon (Si)	< 0.5



Phosphorus (P) < 0.05

Sulfur (S) < 0.05

Trace alloying elements may be present depending on steel grade.

Section 4: First Aid Measures

- **Inhalation:** Move the exposed person to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash thoroughly with soap and water. Treat cuts with appropriate medical care.
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Not expected under normal conditions. If swallowed, rinse mouth and seek medical advice.

Section 5: Fire-Fighting Measures

- **Flammability:** Non-flammable in solid form.
- **Explosion Hazard:** Metallic dust may form explosive mixtures with air.
- **Extinguishing Media:** Use extinguishing agents appropriate for surrounding fire (CO₂, foam, dry chemical).
- **Special Hazards:** Thermal decomposition during welding or cutting may release metal oxides.
- **Protective Equipment:** Firefighters should wear full protective gear and approved respirators.

Section 6: Accidental Release Measures

- **Spill Response:** Not applicable for solid coils.



- **Dust Control:** Provide adequate ventilation if dust or fumes are generated.
- **Personal Protection:** Wear cut-resistant gloves and safety equipment.

Section 7: Handling and Storage

- **Handling:**
 - Use proper lifting equipment to avoid injury.
 - Avoid generating dust and fumes.
 - Handle with care to prevent cuts.
- **Storage:**
 - Store in a dry, covered area.
 - Protect from moisture and corrosion.
 - Use stable supports or chocks to prevent movement or rolling.

Section 8: Exposure Controls / Personal Protection

Occupational Exposure Limits:

- OSHA PEL (Iron Oxide Dust/Fume): 10 mg/m³ (as Fe₂O₃, total)
- ACGIH TLV (Iron Oxide Fume): 5 mg/m³ (respirable fraction)

PPE Recommendations:

- **Respiratory Protection:** Use NIOSH-approved respirator if airborne levels exceed limits.
- **Eye Protection:** Safety glasses with side shields; face shield during cutting/welding.
- **Skin Protection:** Cut-resistant gloves, protective clothing, and steel-toed safety boots.



Section 9: Physical and Chemical Properties

- **Appearance:** Grey metallic coil (sheet rolled in coil form)
- **Odor:** Odorless
- **Melting Point:** ~1538°C (pure iron)
- **Boiling Point:** Not applicable
- **Density:** ~7.85 g/cm³
- **Solubility:** Insoluble in water
- **Flash Point:** Not applicable
- **pH:** Not applicable

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage.
- **Incompatibility:** Strong acids, bases, and oxidizing agents may cause corrosion or reactions.
- **Hazardous Decomposition Products:** Metal oxide fumes during thermal processing.

Section 11: Toxicological Information

- **Acute Effects:** Dust or fumes may irritate eyes, skin, and respiratory tract.
- **Chronic Effects:** Prolonged exposure to welding fumes may result in chronic respiratory issues.
- **Carcinogenicity:** Cold rolled steel is not classified as carcinogenic. Welding fumes may contain trace carcinogens (Cr, Ni depending on grade).



Section 12: Ecological Information

- **Environmental Fate:** Not soluble, not expected to pose environmental risk in solid form.
- **Persistence:** Persistent in the environment.
- **Bioaccumulation:** Not bioaccumulative.

Section 13: Disposal Considerations

- **Disposal Method:** Recycle as scrap steel whenever possible.
- **Waste Classification:** Not hazardous waste in solid form.
- **Regulatory Compliance:** Follow local, regional, and national disposal regulations.

Section 14: Transport Information

- **UN Number:** Not regulated as hazardous.
- **Proper Shipping Name:** Cold Rolled Steel Coil
- **Hazard Class:** Not applicable
- **Packing Group:** Not applicable
- **Transport Precautions:** Secure against shifting or rolling during transport.

Section 15: Regulatory Information

- **OSHA Status:** Not hazardous as solid product.
- **EU CLP / REACH:** Not classified as hazardous in solid form.



- **TSCA Inventory:** All components listed.

Section 16: Other Information

Prepared by: Basekim Kimyasal Ürünler LTD

Disclaimer:

The information contained in this document is based on our current knowledge and is intended to describe the product solely in terms of health, safety, and environmental requirements. It should not be construed as guaranteeing specific properties. Users must ensure safe handling and compliance with all applicable regulations.