

## Safety Data Sheet

### **Section 1 - Product Identification and Uses**

<b>Common/Trade Name</b>	Hot Rolled Steel.
<b>Synonyms</b>	Carbon Steel, HR Coil, Sheet Steel.
<b>Chemical Name</b>	Not applicable.
<b>Chemical Formula</b>	Not applicable.
<b>Supplier</b>	<b>Full name:</b> Ezz Steel <b>Address:</b> Four Seasons Nile Plaza, The Corporate Building, 1089 Cornich El-Nil, Garden City, Cairo, Egypt <b>Tel:</b> +20 (2) 27989900 <b>Fax:</b> +20 (02) 27931953 <b>Email:</b> <a href="mailto:info@ezzsteel.com">info@ezzsteel.com</a> <b>Website:</b> <a href="http://www.ezzsteel.com">http://www.ezzsteel.com</a>
<b>Material Uses</b>	Steel for metal goods, construction, drawing, and other uses.

### **Section 2 - Hazards Identification**

**General Overview** Steel products in their solid form are not hazardous as per OSHA GHS 29 CFR 1910, 1915, 1926.

**Hazardous Statement** Steel product is not exposing any hazards; however, processes such as welding, grinding, and blasting may result in the formation of fumes and/or dust that may present some hazards as follows:  
 H317: Dust/fumes may cause an allergic skin reaction.  
 H372: Inhalation of dust/fumes causes damage to respiratory tract through prolonged or repeated exposure.

#### **Precautionary Statements**

P202 - Do not handle until all safety precautions have been read and understood.  
 P261 - Avoid breathing dust or fumes.  
 P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
 P308+P313 - If exposed or concerned: Get medical advice/attention.  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

#### **Other Hazards which do not Result in Classification**

Exposure to massive forms of steel presents no health hazards. Grinding, thermal cutting, or melting may produce dust or fumes. Dust or fumes may contain elemental constituents. Exposure to elemental constituents presents the hazards described in this sheet.

**Section 3 - Composition and Information on Ingredients**

Name	CAS#	% by Weight	Exposure Limits
			OSHA PEL (mg/m <sup>3</sup> )
Iron (Fe)	7439-89-6	95.5 - 99.5 (Balance)	10 Iron Fume
Aluminum (Al)	7429-90-5	≤ 0.30	15 as Dust
Boron (B)	7440-42-8	≤ 0.0050	10 as Dust
Chromium (Cr)	7440-47-3	≤ 0.75	1.0 as Dust
Phosphorus (P)	7440-50-8	≤ 0.10	0.1 as Dust
Manganese (Mn)	7439-96-5	≤ 1.70	5 as Dust
Carbon (C)	7440-44-0	≤ 0.30	Not listed
Silicon (Si)	7440-21-3	≤ 1.50	15 as Dust

**Note:** Various grades of steel contain different combinations of these elements and/or trace materials. Exact specifications are available upon request.

**Section 4 - First Aid Measures**

<b>Eye Contact</b>	In case of over exposure to dust or fumes, flush eyes with water to remove foreign body. Seek medical attention if irritation persists.
<b>Skin Contact</b>	In case of over exposure to dust or fumes, wash with soap and water to remove from skin. Seek medical attention if irritation persists.
<b>Inhalation</b>	Over exposure to dust or fumes, remove to fresh air. Get immediate medical attention if symptoms develop.
<b>Ingestion</b>	Not considered an ingestion hazard. However, if excessive amounts of dust or particulates are swallowed, treat symptomatically and supportively. Get medical attention.

### **Section 5 - Fire Fighting Measures**

<b>The Product is</b>	Does not burn and will not support combustion.
<b>Auto-ignition Temperature</b>	Not applicable.
<b>Fire Degradation Products</b>	This product is stable under normal conditions.
<b>Flash Points</b>	Not applicable.
<b>Flammable Limits</b>	Not applicable.
<b>Fire Extinguishing Procedures</b>	Use extinguishing media suitable for surrounding materials, use dry powder or sand in case of molten metal. Do not use water on molten metal.
<b>Flammability</b>	Does not burn and will not support combustion.
<b>Risks of Explosion</b>	Risks of explosion of molten steel in presence of water. High concentrations of combustible metallic fines in.

### **Section 6 - Accidental Release Measures**

<b>Fire and Explosion Hazards</b>	Steel is stable under normal condition and explosion is unlikely.
<b>Precautions if Material is Spilled or Released</b>	In case dust generation, collect in suitable or closed containers for disposal.
<b>Environmental Precaution</b>	Steel is stable and does not disintegrate, however some steel grades may contain some quantities of alloying elements. (See Section 15)
<b>Waste Disposal Methods</b>	Steel is recyclable material however its disposal should be under federal or local regulation.

### **Section 7 - Handling and storage**

<b>Storage Temperature</b>	Stable under normal temperatures and pressures.
<b>Precautions to be Taken in Handling and Storing</b>	Avoid dust formation and do not store near strong oxidizers. Use the appropriate personal protective equipment during handling.

### **Section 8 - Protective Measures**

<b>Protective Clothing</b>	Safety glasses with side shields. Wear cotton or leather faced gloves for hand protection. Use NIOSH approved respiratory protection to prevent inhalation of dust or fumes.	
<b>Engineering Controls</b>	Use general ventilation under normal conditions. Use mechanical ventilation if dust or fumes are generated.	

### Section 9 - Physical Data

<b>Physical State and Appearance</b>	Solid: Coil / Sheet (Nominal Thickness 1.00 ~ 16.00mm).
<b>pH</b>	6.5-7.5 at 20 (sample: H <sub>2</sub> O = 1:5 (V/V).
<b>Odor Threshold</b>	Not available.
<b>Volatility</b>	Not available.
<b>Melting/Sublimation Point</b>	1500 -1540 °C.
<b>Boiling/Condensation Point</b>	2500 °C.
<b>Density</b>	7.7 - 8.0 MT/m <sup>3</sup> .
<b>Vapor Density</b>	Not available.
<b>Explosive Properties</b>	Non-explosive.

### Section 10 - Reactivity and Stability

<b>Stability</b>	The product is stable under general condition.
<b>Condition to Avoid</b>	Steel at temperatures above the melting point may liberate fumes containing oxides of iron and alloying elements. Avoid generation of airborne fume.
<b>Degradability</b>	Not available.
<b>Products of Degradation</b>	Not available.
<b>Corrosivity</b>	Do not store near strong oxidizers, acids and bases.
<b>Reactivity</b>	No specific information is available in our database regarding the reactivity of this material with other materials.

### Section 11 - Toxicological Properties

<b>Routes of Entry</b>	Skin contact and Eye contact.
<b>TLV</b>	Permissible exposure limits have not been established for this product.
<b>Chronic Effects on Humans</b>	<p>CARCINOGENIC EFFECTS : Not available          MUTAGENIC EFFECTS : Not available.          TERATOGENIC EFFECTS : Not available.          DEVELOPMENTAL TOXICITY : Not available.</p> <p>There are no chronic effects if used in its purchased form; however, if product is used in a manner that generates fumes, long term (chronic) overexposure to iron oxide fumes can lead to siderosis (iron deposits in lungs). Siderosis will clear in time, when exposure to iron and its compounds ceases.</p>
<b>Acute Effects on Humans</b>	Overexposure to dust or fumes may be abrasive to eyes and skin.

### **Section 12 - Ecological Information**

<b>Aquatic Ecotoxicological Data</b>	No data available.
<b>Environmental Fate Data</b>	No data available.

### **Section 13 - Disposal Considerations**

<b>Disposal</b>	Steel is recyclable material however its disposal should be under federal or local regulations.
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### **Section 14 - Transport Information**

<b>Department of Transportation (DOT)</b>	Not regulated.
<b>Air Transport</b>	Not regulated.
<b>Transport by Sea</b>	Not regulated.

### **Section 15 - Regulatory Information**

<b>Egyptian Labor law</b>	Steel is not classified as hazardous material.
<b>US OSHA Hazards</b>	Not applicable.

### **Section 16 - Other Information**

<b>Other Information</b>	<p>This SDS covers EZZ Steel product as delivered from EZZ Steel mills but does not include chemicals that may be applied by subsequent handlers and/or distributors of this product. This could include a variety of materials including oils, paint, galvanization, etc. that are not included in this SDS.</p> <p>The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.</p>
<b>Last Revision Date</b>	Jan., 2026