



## MATERIAL SAFETY DATA SHEET

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### **PRODUCT IDENTIFICATION:**

WWF and Struts – Black Steel

Identification Name: Carbon and Alloy Steel(s)

### **HAZARDOUS INGREDIENTS:**

<u>Component</u>	<u>% By Weight</u>	<u>OSHA PEL (mg/m<sup>3</sup>)</u>	<u>ACGIH TLV/TWA (mg/m<sup>3</sup>)</u>
Iron	94 – 98	10	5
Chromium	0.0 – 1.2	1.0	0.5
Nickel	0.0 – 1.0	1.05	0.1
Manganese	0.3 – 1.6	5	1.0
Molybdenum	0.00 – 0.35	5	5
Copper	0.1 – 1.0	0.1	0.2
Silicon	0.0 – 2.0	Not Established	10
Carbon	0.05 – 1.00	Not Established	Not Established
Cadmium	<0.1	0.1	0.05

PEL – Permissible Exposure Limit

TLV – Threshold Limited value

### **PHYSICAL DATA:**

Boiling Point: N/A

Appearance and Odor: Odorless Solid

Odor: None

Melting Point: 2800 Degrees

Solubility in Water: NA

Vapor Pressure: NA

Specific Gravity: 7.8

Vapor Density: NA

Evaporation Rate: NA

% volatile by Volume: NA

**FIRE AND EXPLOSION HAZARD DATA:**

Flash Point: None

Flammable limits in air by volume: LEL: NA, UEL: NA

Extinguishing Media: No Fire or Explosion Hazard

Special Firefighting Procedures: NA

Unusual Fire and Explosion Hazards: NA

**REACTIVITY DATA:**

Stability: Stable

Conditions to avoid: None

Incompatibility (materials to avoid): None

Hazardous decomposition or by products: Metal fumes and certain noxious gases may be produced during burning or welding

Hazardous Polymerization: Will not occur

**HEALTH HAZARD DATA:**

Routes of Entry: Inhalation - Yes

Skin – No

Ingestion – yes

Health Hazards (Acute and Chronic): Prolonged repeated exposure to fumes or dust generated during cutting welding or grinding operations may cause impairment of lung function, Pneumonitis, “Metal Fume Fever”.

Carcinogenicity: NA

Medical Conditions Generally Aggravated by Exposure: Dermatitis, Pulmonary Disease, Speech Disorders

Signs and Symptoms of Exposure: Irritation of the nose, throat or eyes; Cough, headache, nausea, fever.

Emergency and First Aid: In case of overexposure, move person from contaminated area to fresh air. If eyes are irritated, flush with water. Seek medical aid if necessary.

#### **PRECAUTIONS FOR SPILLS OR LEAKS:**

Steps to be taken in case material is released or spilled: NA

Waste Disposal Method: In accordance with Federal, State and Local Regulation

Precautions to be taken in Handling and Storage: No special handling Precautions required.

Other Precautions: NA

#### **SPECIAL PROTECTION INFORMATION:**

Respiratory Protection: Use NIOSH approved dust fume respirator if contaminant levels exceed the PE or TLV.

#### **Ventilation:**

Local Exhaust: Allow for adequate ventilation

Mechanical (General): When required

Special: None

Other: None

Eye Protection: Use face shield and appropriate eye protection when cutting, welding or grinding

Protective Gloves: Use gloves when cutting, welding or grinding.

Work /Hygienic Practices: Remove combustibles from area when cutting or welding

Other: Use welders apron when welding

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