

**MATERIAL SAFETY DATA SHEET**

(Essentially similar to Form OSHA-20)

**Western Tube & Conduit**

Page 1 of 3

Revision Date: 3/4/2003

Phone Number: 310.669.2204

<p><b>Product Identification</b></p>	<p><b>Trade Name:</b> Steel Tubing (1000 Series Alloys)  <b>Generic Name:</b> Not applicable  <b>Chemical Name:</b> Not applicable  <b>Chemical Family:</b> Not applicable  <b>Synonyms:</b> Not applicable</p>																											
<p><b>Hazardous Ingredients</b></p>	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>CAS No.</th> <th>%</th> <th>Limit, Type</th> </tr> </thead> <tbody> <tr> <td>Iron</td> <td>7439-89-6</td> <td>98-99</td> <td>5 mg/m<sup>3</sup> fume</td> </tr> <tr> <td>Manganese</td> <td>7439-96-5</td> <td>0.45-0.85</td> <td>0.2 mg/m<sup>3</sup> ACGIH, TLV</td> </tr> <tr> <td>Carbon</td> <td>7440-44-0</td> <td>0.1-0.7</td> <td>10 mg/m<sup>3</sup> inhalable</td> </tr> <tr> <td>Silicon</td> <td>7440-21-3</td> <td>0.2</td> <td>10 mg/m<sup>3</sup> ACGIH, TLV</td> </tr> </tbody> </table>				Ingredient	CAS No.	%	Limit, Type	Iron	7439-89-6	98-99	5 mg/m <sup>3</sup> fume	Manganese	7439-96-5	0.45-0.85	0.2 mg/m <sup>3</sup> ACGIH, TLV	Carbon	7440-44-0	0.1-0.7	10 mg/m <sup>3</sup> inhalable	Silicon	7440-21-3	0.2	10 mg/m <sup>3</sup> ACGIH, TLV				
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<p><b>Fire and Explosion Data; NFPA Standard 704 Ratings</b></p>	<p><b>Flash Point (TCC):</b> Not applicable  <b>Lower Flam. Limit:</b> Not applicable  <b>Upper Flam. Limit:</b> Not applicable  <b>Autoignition Temp.:</b> Not applicable</p>		<p><b>NFPA Ratings:</b>  <b>Health</b> 0  <b>Fire</b> 0  <b>Reactivity</b> 0</p>																									
<p><b>Fire &amp; Explosion Hazards:</b> Not applicable for the solid product. Do not use water on molten metal.</p> <p><b>Products of Combustion:</b> Metal oxides, alloy elements, and oxides of carbon and nitrogen.</p> <p><b>Extinguishing Media:</b> Not applicable for the solid product. Use appropriate extinguishers for surrounding material.</p> <p><b>Fire Fighting Procedures:</b> Do not release runoff from fire control methods to sewers or waterways. Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode and full protective clothing.</p>																												
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<b>Health Hazard Information; Protective Equipment Recommended</b>	<p><b>General Effects of Overexposure:</b> Primary route of exposure is inhalation. Operations such as burning, welding, sawing, brazing, machining, and grinding may cause health effects if exposures exceed recommended limits as listed under <b>Hazardous Ingredients</b>.</p> <p><b>Eye Contact:</b> Excessive exposure to high concentrations of dust may cause irritation to the eyes. Particles of iron compounds may become imbedded in the eye and cause rust stains unless removed promptly. Use safety glasses or goggles as required for machining operations.</p> <p><b>Skin Contact:</b> Dust may cause irritation or sensitization of the skin, possibly leading to dermatitis. Protective gloves should be worn as required for handling operations.</p> <p><b>Inhalation:</b> Excessive inhalation to fumes of metal oxide particles can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever, metallic taste in the mouth, dryness and irritation of the throat followed by weakness and muscle pain. Oxide fumes of manganese and copper have been associated with causing metal fume fever. Chronic inhalation of excessive concentrations of metal fumes may result in pneumoconiosis, pulmonary disorders, respiratory irritation, asthma, nosebleed, and ulceration of the nasal septum, as well as respiratory cancer.</p> <p><b>Ingestion:</b> Ingestion of dust may cause nausea or vomiting.</p>
<b>Emergency &amp; First Aid Information</b>	<p><b>Eye Contact:</b> Flush the affected eye(s) with water. If irritation develops, seek medical attention.</p> <p><b>Skin Contact:</b> Wash skin thoroughly with soap and water. If irritation or abrasion develop seek medical attention.</p> <p><b>Inhalation:</b> Move away from exposure to fumes and into fresh air. If symptoms of exposure develop, seek medical attention.</p> <p><b>Ingestion:</b> If ingested seek medical attention.</p>

<b>Chemical Reactivity Information</b>	<p><b>Stability:</b> Stable under normal conditions of storage and handling.</p> <p><b>Reactivity:</b> May react with strong acids to form hydrogen. Iron oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause an explosion.</p> <p><b>Incompatibility:</b> May be incompatible with strong acids.</p> <p><b>Hazardous Reaction/Decomposition Products:</b> Burning produces oxides of iron, manganese, chromium and other alloying elements.</p> <p><b>Polymerization Hazards:</b> This material will not polymerize.</p>
<b>Storage &amp; Handling Procedures</b>	<p><b>Routine Handling &amp; Use:</b> Avoid breathing metal fumes or dust generated during machining operations. Practice good housekeeping.</p> <p><b>Non-Routine Handling &amp; Use:</b> Not applicable.</p> <p><b>Storage:</b> Store away from acids and incompatible materials.</p>
<b>Spill, Leak and Disposal Procedures</b>	<p><b>General Spill or Leak Procedures:</b> All materials should be handled and transported off-site in accordance with federal, state, and local regulations.</p>
<b>Regulatory Information</b>	<p><b>SARA Section 313 Notification:</b> Contains no listed substances present above the de minimis concentrations listed in 40 CFR 372 (2002). Please contact Western Tube &amp; Conduit for an update prior to completing any EPCRA report.</p> <p><b>VOC Content, Material:</b> 0</p> <p><b>VOC Content, Less Water:</b> 0</p> <p><b>Clean Air Act Ozone Depleter:</b> None listed</p> <p><b>DOT Proper Shipping Name:</b> Not regulated</p> <p><b>DOT Hazard Class:</b> None</p> <p><b>40 CFR 355 Reportable Quantity:</b> None listed</p> <p><b>49 CFR 171 Reportable Quantity:</b> None listed</p> <p><b>California Proposition 65:</b> <b><u>WARNING: This product contains chemicals known by the State of California to cause cancer, birth defects, or other reproductive harm.</u></b></p>