

# Material Safety Data Sheets



## Structural Steel Tubing

Solid Metal  
 Melting Point: 2750° F  
 Appearance: Grey-Black  
 Odor: None  
 Specific Gravity (H2O=1): Greater than 7

Typical Chemical Composition & Hazard Data			
Ingredient	CAS. No.	Weight %	Hazard Data (1984 TLV's)
Iron	7439-89-6	Balance	5mg/M_ for iron oxides fumes
Carbon	7440-44-0		Not listed
Manganese	7439-96-5	1.7 max	5mg/M_ fumes & dust
Phosphorus	7723-14-0	.15 max	None for inorganic phosphates
Sulfur	7704-34-9	.35 max	5mg/M_ as SO_
Columbium	7440-25-7	.10 max	None established
Vanadium	7440-62-2	.20 max	.005mg/M_ Al metal & oxide
Aluminum	7429-90-5	.10 max	10 mg/M_ Al metal & oxide
Copper	7440-50-8	.20-0.6	0.2 mg/M_ Copper fume 1 mg/M_ Copper dust

Health Hazard Data	
Steel products under normal conditions do not present a health hazard. However, when subjected to welding, burning, grinding, abrasive blasting, heat treatment, pickling or similar operations, potentially hazardous fumes or dusts may be emitted.	
Primary Route of Entry	Inhalation
Health Hazards	Iron (iron oxide): Irritation of eyes, nose, throat Metallic taste in mouth or metal fume fever
Effects of Exposure	Iron (iron oxide): Pulmonary (upper respiratory) effects, siderosis. Manganese: pneumonitis, bronchitis, lack of coordination
Carcinogenic Hazard	Not considered to be a carcinogen
Emergency and First Aid Procedures	In the event of exposure to high concentrations of metal fumes, remove person to fresh air, administer oxygen and seek prompt medical attention

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Fire and Explosion Data	
Flash Point:	N/A
Extinguishing Media:	Use methods applicable to surrounding area
Flammable Limits:	N/A
Unusual Fire & Explosion Hazards:	None
Special Fire Fighting Procedures:	N/A

Reactivity Data
Steel is considered stable under normal circumstances. Will react with string acid. At elevated temperatures, it may liberate metal fumes, iron oxides and oxides of other alloying elements.
Special Protection Information
Steel is considered stable under normal circumstances. Will react with string acid. At elevated temperatures, it may liberate metal fumes, iron oxides and oxides of other alloying elements.

Waste Disposal Methods
Disposal of in accordance with Federal, State and/or local waste regulations.

Other Information
Castrol WY-3-085A as a coolant during manufacture of structural steel tubing.

The information contained in the Material Safety Data Sheet is believed to be correct, but Independence Tube Corporation makes no representations, guarantees or warranties of any kind as to its absolute accuracy.

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