

## CERRO CONDUIT COMPANY

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MATERIAL SAFETY DATA SHEETSECTION 1 - IDENTIFICATION

Product Name: Electrical Metallic Tubing (EMT), Sizes 1/2" to 4"  
 Intermediate Metallic Conduit (IMC), Sizes 1/2" to 4"  
 Chemical Name: N/A Formula: N/A  
 Manufacturer: Cerro Conduit Company  
 Address: Robbins Lane & Miller Place, Syosset, New York 11791  
 Additional Information/Emergency Telephone: 516-931-2700

SECTION 2 - PRINCIPAL COMPONENTS & RECOMMENDED EXPOSURE LIMITS

	% Weight (Range)	Exposure Limits ACGIH TLV
Base Metal: Iron	Balance	5. mg/M <sup>3</sup> for iron oxide fumes
Alloys: Manganese	.05/1.5	(c) 5. mg/M <sup>3</sup> - Dust
		.1 mg/M <sup>3</sup> - Fumes
Sulfur	.05 MAX	5. mg/M <sup>3</sup> as SO <sub>2</sub>
Aluminum	.10 MAX	10. mg/M <sup>3</sup>
Coating: Zinc	1.0	10. mg/M <sup>3</sup> - Total ZnO dust
		5. mg/M <sup>3</sup> - Respirable ZnO dust and fumes
Mineral Spirits* (64742-47-8)	<.4	500 ppm as vapor
Xylene* (1330-20-7)	<.006	100 ppm as vapor
Toluene* (108-88-3)	<.012	200 ppm as vapor
Chromate Salt** (10588-01-9)	<.01	.1 mg/M <sup>3</sup> for chronic acid

\*Paint as applied to inside of tube

\*\*Chromate salt as applied to outside of tube

(c), "ceiling limit" which is not to be exceeded at any time

SECTION 3 - PHYSICAL DATA

Melting Point: Steel = 2750°F, Zinc = 800°F, Chromium = 3434°F  
 Specific Gravity: 7.8 (H<sub>2</sub>O = 1)  
 Vapor Pressure: N/A Percent Volatile: N/A  
 Vapor Density: N/A Evaporation Rate: N/A  
 Solubility in Water: N/A  
 Appearance: Metallic Gray Tubing 1/2" to 4" in diameter

SECTION 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A Flammable Limits: N/A  
 Extinguisher Media: N/A Autoignition Temperature: N/A  
 Special Fire Fighting Procedures: Steel products in the solid state present no fire or explosion hazard. Use NIOSH/MSHA approved self contained breathing apparatus and full protective clothing if involved in fire.  
 Unusual Fire and Explosion Hazards: None

NOTE: N/A, Not Applicable

(see reverse side)

### SECTION 5 - HEALTH HAZARD DATA

SOLID steel tubing under normal conditions does not present an inhalation, ingestion or contact health hazard. Welding, burning, brazing, grinding, melting and some machining operations may result in the generation of airborne particulates.

#### Chronic Effects of Inhalation of High Concentrations:

- 1) Iron Oxide Fumes - benign pneumoconiosis (siderosis);
- 2) Ferric Oxide - possibly enhances the risk of lung cancer development in workers exposed to pulmonary carcinogens;
- 3) Manganese, Copper, Lead and/or Zinc dust and fumes - metal fume fever;
- 4) Chromium - skin ulceration, irritative dermatitis, ulceration of the mucous membranes, perforation of the nasal septum, bronchial carcinoma, adenocarcinoma. Metal fume fever-influenza like illness - symptoms include metallic taste, irritation of throat, muscle pain, fever and chills. Symptoms last 12 to 48 hours.

First Aid procedures: Remove person to fresh air. Administer artificial respiration or oxygen as indicated. Seek medical attention. Treat by bed rest and administer a pain and fever reducing medication.

### SECTION 6 - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: N/A

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Above melting point of steel and coating, metallic fumes may be evolved. May produce hazardous paint fumes when heated.

Incompatibility: Stable under normal conditions of use, storage and transport. Will react with strong acids to liberate hydrogen.

### SECTION 7 - SPILL OR LEAK PROCEDURES

Not applicable to steel in the solid state

### SECTION 8 - SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust as required

Respiratory Protection: NIOSH/MSHA approved respirator for toxic dusts and/or fumes.

Protective Gloves: To be worn as required for welding, burning, handling, etc.

Eye Protection: Safety glasses or goggles for welding, burning, grinding or machining.

Protective Clothing: As required for burning, welding, etc.

### SECTION 9 - SPECIAL PRECAUTIONS

No additional precautions recommended.

Date of Preparation: 1/29/86

Revisions:

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