

Mount Joy Wire Corporation

MATERIAL DATA SAFETY SHEET

Revision Date:

March 2005

Emergency Phone No:

(717) 653-1461

I. Material Identity		Manufacturer's Name and Address: Mount Joy Wire Corporation, 1000 East Main Street, Mount Joy, PA 17552		Product Name/Trade Name: carbon steel wire	
Chemical Name & Synonyms: AISI 1002 through 1095, hard drawn, quench & tempered, annealed, brush, music					
Recommended Use:		Ingredients and % Weight Vary Accordingly to Order Specification			
Base Metal:	Iron	CAS #	7439-89-6	% Weight	95-99
				Permissible Exposure Limits	Units
				As Iron Oxide Fume	10 mg/M ³
Alloys:	Carbon	7440-44-0	.01-1.1	None Listed	-
	Manganese	7439-96-5	.25-1.65	As Manganese	5 mg/M ³
	Phosphorous	7723-14-0	.04 Max	As Phosphorous (Yellow)	0.1 mg/M ³
	Silicon	7440-21-3	1.6 Max	None Listed	-
	Sulfur	7704-34-9	.001-.035	As Sulfur Dioxide	13 mg/M ³
	Vanadium	7440-62-2	.01-.35	As Vanadium Pentoxide - Fume	0.1 mg/M ³
	Chromium	7440-47-3	.01-1.5	As Soluble Chromic - Chromous Salts - Dust - Chrome & Insoluble Salts	0.5 mg/M ³ 0.5 mg/M ³ 1 mg/M ³
Coatings:		Optional - Light surface coatings (less than 1% total weight of product) of Petroleum Oil, Phosphate, Borax, Lime or Dry Lubricants (Calcium or Sodium).			
Note:		Use gloves when handling to prevent skin irritation.			
1. FIRST AID:		In case of excessive exposure, remove to fresh air, administer oxygen, and seek physician's assistance.			
2. NOTES TO PHYSICIAN:					
IV. Emergency Medical Procedure		V. PERSONAL PROTECTION ITEMS		III PHYSICAL DATA	
		Safety Types & Kinds		1. BOILING POINT NA	
		1. Respiratory Protection		2. VAPOR PRESSURE NA	
		2. Protective Clothing		3. VAPOR DENSITY NA	
		3. Gloves		4. SOLUBILITY IN WATER NA	
		4. Eye Protection		5. SPECIFIC GRAVITY 7	
		5. Ventilation Requirements		6. % VOLATILE BY VOLUME NA	
		6. Other - As Per Welding Requirements		7. EVAPORATION RATE NA	
				8. AUTO IGNITION TEMP. NA	
				9. APPEARANCE & ODOR gray-black & odorless	
				10. PHYSICAL STATE SOLID	
				11. pH NA	

NOTE Steel products in the natural state do not present an inhalation , ingestion, or contact hazard. However operations such as burning, welding, sawing and grinding may result in the following effects exposures exceeded permissible limits as listed in Section II <input checked="" type="checkbox"/> Major Exposure Hazard - <input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input type="checkbox"/> Eye Contact <input type="checkbox"/> Ingestion		Effects of Overexposure	
		ACUTE: Iron {Iron-Oxide} - Irritation of the eyes, nose, throat, metallic taste in mouth or metal fume fever. Manganese - Irritation of the eyes, nose, throat, metallic taste in mouth or metal fume fever. Vanadium - Irritant to conjunctivæ and respiratory tract (greenish-black discoloration of tongue and shortness of breath). Chromium - Irritant of eyes, nose, and lungs dermatitis.	
VI. Health Hazard Data		CHRONIC: Iron {Iron-Oxide} - Pulmonary effects, siderosis. Manganese - Bronchitis, pneumonitis, lack of coordination. Vanadium - No reported cases of exposure to vanadium. Chromium - Various forms of dermatitis, inflammation and/or ulceration of upper respiratory tract and possibly cancer of nasal passages and lungs. Based on available information, there does not appear to be any evidence that exposure to welding fume induces human cancer.	
VII. Fire and Explosion Data		VIII. Reactivity Data	
1. Flash Point - NA 2. Lower Explosive Limit - NA 3. Upper Explosive Limit - NA 4. Extinguishing Media - NA 5. Special Fighting Precautions - NA		1. Stable - Yes 2. Incompatibility - None 3. Products of Decomposition: a) Metal Fume: Iron Oxide b) Manganese c) Vanadium Pentoxide d) Chromium	
X. SPECIAL PRECAUTIONS		IX. SPILL / LEAK PROCEDURE	
1. Handling Storage - NA 2. Welding & Cutting - Adequate ventilation and/or approved respiratory protection should be provided if PEL is extended. 3. Other Precautions - NA		1. Clean-up - NA 2. Waste Disposal - NA	