

AnchorTech, LLC

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Material Safety Data Sheet

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Trade Name: Cast Iron AnchorTech Name HTAC Alloy							
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1. Element: Symbol		% by Wt		Exposure Limits			
					EL (mg/m3)	ACHIG-TLV (mg/m3)	
Iron	(Fe)	Remainder	-	10	(fume)		
Carbon	(C)	2.5 to 4.3			15	10	
Chromium	(Cr)	0.4 to 10			1	0.5	
Copper	(Cu)	0.3 to 1.9			1	1	
Manganese	(Mn)	0.4 to 0.7			5	5	
Nickel	(Ni)	0.1 to 10			1	1	
Silicon	(S)	0.15 to 2.0			15	10	
Note: this is a sumn these elements. Tra				st irons and each alloy inute amounts.	will contain di	fferent combinations of	
2 Dhysical Data							
2. Physical Data % Volatile by Volume N/A			Vapor Density	N/A			
			N/A	Boiling Point	N/A		
Melting Point (approximate) 2,7			2,750 F	Acidity/Alkalinity: PH	N/A		
				Solubility in Water	N/A		
Material in normal conditions:			Solid				
Appearance and Oder:				er Gray, Odorless roximately 7.0			
Specific Gravity:			Approxima	tely 7.0			
3. Personal Protective Equipment Respiratory Protection:				4. Emergency Medical Procedures Inhalation:			
Appropriate dust/mist/fume respirator should be used to avoid excessive inhalation of particulates. If exposure limits are reached or exceeded, used NIOSH approved equipment.				Remove to fresh air; if condition continues, consult a physician			
Eyes & Face Safety glasses should be worn when grinding or cutting. Face shields should be worn when welding or cutting				Eye Contact: Flush thoroughly with running water to remove particulate; Obtain medical attention			
Hands, Arms, & Body Protective Gloves should be worn as required for welding, burning, or				Skin Contact: Remove particles by washing thoroughly with soap and water. Seek			
handling operations Other clothing & Equipment				medical attention if irritation persists			
As required depending on operations & local safety codes				If significant amounts of metal are ingested, consult a physician			
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5. Health and Safety information

Health: Iron products in their solid state present no inhalation, ingestion, or contact health hazards. Operations such as burning, welding, sawing, brazing, grinding, machining, which result in elevating the temperature of the product to, or above it's melting point, or result in the generation of airborne particulates, may present hazards. the major hazard is inhalation. Effects or overexposure to fume & dust are as follows:

Acute: Excessive inhalation of metallic fumes and dust may result in irritation of eyes, nose, and throat. High concentrations of fumes and dust of iron-oxide, manganese, copper, may result in metal fume fever. Typical symptoms last 12 to 48 hours and consist of a metallic taste in the mouth, dryness and irritation of the throat, chills, and fever.

Chronic: Chronic and prolonged inhalation of high concentrations of fumes or dust of the following elements may lead to the conditions listed below:

Chromium: Lesions of the skin and mucous membranes, possible cancer of the nose or lungs-bronchogenic carcinoma.

Manganese: Bronchitis, pneumonitis, lack of coordination.

Copper: No chronic debilitating symptoms indicated.

Nickel: Lesions of the skin and mucous membranes, possible cancer of the nose or bronchogenic carcinoma.

Medical conditions aggravated by exposure: Individuals with chronic respiratory disorders (i.e.: asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure.

Occupational Exposure Limits: See Products Ingredients Section 1. Chromium and Nickel have been identified by the International Agency for Research on Cancer (IARC) and/or the National Toxicology Program (NTP) as potential cancer causing agents.

Fire and Explosion:

 Flash Point: N/A
 Auto Ignition Temperature: N/A
 Flammable limits in Air (Upper & Lower): N/A

 Extinguishing Media:
 For molten metal, use dry powder or sand.
 (DO NOT USE WATER ON MOLTEN METAL!!!)

Fire and Explosion Hazards: Iron and steel products do not present fire or explosion hazards under normal conditions. Fine metal particles such as produced by grinding or sawing can burn. High concentrations of metallic fines in air may present an explosion hazard.

Reactivity:

Stability: Stable Incompatibility: (Materials to avoid) Reacts with strong acids to form Hydrogen gas.

Conditions to avoid: Iron at temperatures above the melting point may liberate fumes containing oxides of iron and alloying elements. Avoid generation of airborne fumes and dust.

Hazardous Decomposition Products: Metallic dust or fumes may be produced during welding, burning, grinding, and possible machining. Refer to ANSI Z49.1.

6. Environmental:

Spill or Leak procedures: Fine turnings and small chips should be swept up or vacuumed. Scrap metal can be reclaimed for reuse.

Waste disposal Method: Used or unused products should be disposed of in accordance with Federal, State, and local laws and regulations. Disposer must comply with Federal, State, and local disposal or discharge laws.

7. Additional information:

In welding, precautions should be taken of airborne contaminants which may originate from components of the welding rod. Arc or spark generated when welding or burning could be a source of ignition for combustion of flammable materials.

Disclaimer

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