

# MATERIAL SAFETY DATA SHEET

MANUFACTURER: CMC Steel Alabama  
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NO: 85-1

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## SECTION I. MATERIAL IDENTIFICATION

CHEMICAL NAME AND SYNONYMS: Non-resulfurized carbon steel

TRADE NAME AND SYNONYMS: Various steel products such as concrete reinforcing bar (rebar); angles; smooth rounds; square sections; flats; channels; beams; special "T" shapes; studded "T" steel fence post stock, etc.

CHEMICAL FAMILY: N/A

FORMULA: N/A

## SECTION II. INGREDIENTS AND HAZARDS (stated in mg/m<sup>3</sup>)

	CAS NUMBERS	%	HAZARD DATA	OSHA PEL	(ACGIH) TLV
Aluminum	7429-90-5	0.5	Fume As dust	-- 1.0	5.0 1.0
Carbon	1333-86-4	0.3	Not listed	--	--
Chromium	744440-47-3	0.1	As soluble Cr salts (VI) As metal and insol. Cr	0.5 1.0	0.5 1.0
Copper	7440-50-8	0.5	As dust	1.0	1.0
Iron	12040-57-2	99.0	As Fe	--	5.0
Iron	1309-37-1		As iron oxide fume	10.0	--
Molybdenum	7439-98-7	0.1	As fume	0.1	0.2
Nickel	7440-02-0	0.5	As metal (Ni) As soluble Ni comp.	1.0 1.0	1.0 1.0
Phosphorus	7723-14-0	0.2	As yellow phosphorus	0.1	0.1
Silicon	7440-21-3	--	As nuisance dust	15.0	15.0
Sulfur	7446-09-5	0.1	As sulfur dioxide	13.0	5.0

## SECTION III. PHYSICAL DATA

Boiling point at 1 atm., deg. F: 5420	Specific gravity (H <sub>2</sub> O-1): approx 8.0	Appearance/Odor:
Vapor pressure at (mm Hg): N/A	Evap. Rate (N/A -1): N/A	Odorless solid with
Vapor density (Air-1): N/A	Volatiles, % volume: N/A	metallic luster.
Water solubility: N/A	Molecular weight: N/A	

## SECTION IV. FIRE AND EXPLOSION DATA

			LOWER	UPPER
Flash point and Method: N/A	Autoignition Temp: N/A	Flammability Limits In Air: N/A	N/A	N/A

Extinguishing media: Non-combustible – no fire or explosion hazard

Special fire fighting procedures: N/A

Unusual fire and explosion hazards: N/A

<b>SECTION V. HEALTH HAZARD INFORMATION</b>		<b>TLV-15mg/m<sup>3</sup> as nuisance dust.</b>	
Effects of over exposure: No toxic effects would be expected from inert solid form. Prolonged repeated exposure to fumes or dust generated by heating, cutting/burning, grinding or welding could result in minor skin or eye irritation.			
FIRST AID:			
Eye contact: Flush well with running water to remove particles; obtain medical attention.			
Skin contact: Brush off excess dust; wash area well with soap and water.			
Inhalation: Remove to fresh air; obtain medical attention.			
Ingestion: Seek medical attention if large quantities of material have been ingested.			
<b>SECTION VI. REACTIVITY DATA</b>			
Stability	Stable	X	Conditions to avoid: N/A
	Unstable		
Incompatibility (Materials to Avoid): Concentrated inorganic acids			
Hazardous decomposition products: Hydrogen gas			
Hazardous Polymerization	May occur		Conditions to avoid: Exposure to concentrated inorganic acids and/or hydrogen gas
	Will not occur	X	
<b>SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES</b>			
SPILLS, LEAKS: (Steps to be taken) N/A			
WASTE DISPOSAL METHOD: Material should be reclaimed for re-use; follow local, State, & Federal solid waste disposal requirements.			
<b>SECTION VIII. SPECIAL PROTECTION INFORMATION</b>			
Respiratory protection: During welding, cutting/burning or grinding operations, precautions should be taken to control airborne particles and/or fumes; use general service or nuisance dust respirator of type approved by HIOSH/MSHA			
Ventilation:	Local Exhaust: To control dust, fumes, etc. when grinding, cutting/burning.	Special: N/A	
	Mechanical (General): N/A	Other: N/A	
Protective gloves: To protect against skin abrasion.	Eye Protection: Safety glasses with sideshields of type approved by OSHA/MSHA		
Other protective equipment and precautions: N/A			
<b>SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS</b>			
Storage & Handling Information: General good housekeeping practices are sufficient			
Other Precautions: None			
DOT Class: Non-hazardous			
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