

Section 1 - CHEMICAL, PRODUCT AND COMPANY IDENTIFICATION	
Manufacturer Information: Jackson Clip Company P.O. Box 1150 Chouteau, OK 74337 Office Phone #: (800) 654-6430	Supplier Information: American Excelsior Company 850 Avenue H East Arlington, TX 76011 Office Phone #: (817) 385-3500
Chemical Name: Carbon Steel Synonyms: Wire Rod Internal Product Codes: 78 Product Use: Anchor for erosion control blankets	MSDS Origination Date: 09-29-06 Last Revision Date: 09-29-06

Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS		
Components	CAS Number	% Weight
Iron, Fe, (Iron Oxide; Fe ₂ O ₃)	N/A	≤99
Alloys (See Below)	N/A	< 1
Hazardous Mixture of Other Liquids, Solids, and Gases: Alloy: Maximum; (TLV); Cr: 0.35% (1mg/m ³); Ni : 0.35% (1mg/m ³); Mn: 1.7% (5mg/m ³); Pb: 0.0005% (0.05mg/m ³); Cu: 0.5% (0.1mg/m ³); Si: 0.75% (5mg/m ³); Ti & TiO ₂ : 0.005% (15mg/m ³); Zn: 0.005% (5mg/m ³); P: 0.04% (1mg/m ³); S: 0.04%: SO ₂ (13mg/m ³); Sn: 0.04% (2mg/m ³); Mo: 0.2% (15mg/m ³); C: 0.9%; CO: (55mg/m ³); CO ₂ 5000ppm		

Section 3 – PHYSICAL PROPERTIES	
Appearance: Metallic luster	Odor: Odorless
Physical State: Solid	pH: N/A
Vapor Pressure: N/A	Vapor Density: N/A
Boiling Point: 5430°F	Specific Gravity: ≈ 8

Section 4 – FIRE & EXPLOSIVE HAZARDS	
Flash Point:	N/A
Method Used:	N/A
Upper Flammable Limit (UFL):	N/A
Lower Flammable Limit (LFL):	N/A
Auto Ignition:	N/A
Flammability Classification:	N/A
Rate of Burning:	N/A
Extinguishing Media:	No fire or explosion hazard – Non-combustible
Fire Fighting Equipment/Instructions:	N/A
Special Fire Fighting Procedures:	N/A
Unusual Fire and Explosion Hazards:	N/A

Section 5 – HEALTH HAZARD DATA

Threshold Limit Value: 15mg/m³ is considered a nuisance dust

Effects or Overexposure: No toxic effect would be expected from inert solid form, prolonged, repeated exposure to fumes or dust generated during heating, cutting, or welding may cause adverse health effects.

Emergency First Aid Data: In case of overexposure, remove person to fresh air. Give artificial respiration of breathing has stopped of oxygen if necessary and seek medical attention.

Section 6 - CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability: Stable.

Conditions to Avoid: N/A

Incompatibility: Contact with strong acids and caustics may produce H₂ gas.

Hazardous Decomposition Products: Metal fumes and noxious gases may be produced during welding, cutting, or grinding operations (see section 2).

Hazardous Polymerization: Hazardous polymerization will not occur.

Section 7 - ACCIDENTAL RELEASE MEASURES

Containment Procedures: N/A

Clean-Up Procedures: Any approved disposal method – follow local regulations.

Section 8 – SPECIAL PROTECTION & INFORMATION

Personal Protective Equipment:

Eye/Face: Wear safety glasses, goggles, or other appropriate eye/face protection.

Skin: Normal work clothing and gloves are recommended.

Respiratory: When necessary, appropriate NIOSH approved respiratory protection should be used.

General: None.

Section 9 – SPECIAL PRECAUTIONS

Handling or Storage: During welding, cutting, or grinding precautions should be taken to control airborne particles and fumes.

Other Precautions: N/A

Section 10 - OTHER INFORMATION

As the conditions of methods of use are beyond our control, Jackson Clip Company does not assume any responsibility and expressly disclaims any liability for use of this material. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of this material, or the results to be obtained thereof. Compliance with all federal, state, provincial, and local laws and regulations remains the responsibility of the user.

Key/Legend:

mg/m ³	milligrams per cubic meter
N/A	Not Applicable or Not Available
NIOSH	National Institute of Occupational Safety and Health
ppm	Parts Per Million
TLV	Threshold Limit Value

MSDS Contact: Jackson Clip Company**Phone:** (800) 654-6430