



## SAFETY DATA SHEET

<b>Section 1.</b>	<b>IDENTIFICATION</b>
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<b>PRODUCT NAME :</b>	COLD ROLLED, LOW CARBON STEEL STRIP
<b>COMPANY IDENTIFICATION :</b>	THOMAS STEEL STRIP DELAWARE AVENUE, N.W. WARREN, OHIO 44485
<b>EMERGENCY TELEPHONE NUMBER :</b>	(330) 841-6111
<b>TELEPHONE NUMBER FOR INFORMATION :</b>	(330) 841-6118
<b>DATE PREPARED :</b>	MAY, 2015

<b>Section 2.</b>	<b>HAZARD(S) IDENTIFICATION</b>
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HAZARDS COMPONENTS (Specific Chemicals Identity)			EXPOSURE LIMITS			
Ingredients	CAS#	% (weight)	Exposure (PEL as)	OSHA PEL mg/M <sup>3</sup>	ACGIH TLV mg/M <sup>3</sup>	ACGIH STEL mg/M <sup>3</sup>
Iron	7439-89-6	97-99	Iron Oxide Fume	10	5	
Carbon	7440-44-0	0.001-1.03	Nuisance Dust	15	10	
Manganese	7439-96-5	0.15-0.99	Manganese Dust	5©	0.2	
			Manganese Fume	5©	1	3
Phosphorus	8049-19-2	0.001-0.04	Nuisance Dust	15	10	
Sulfur	7704-34-9	0.001-0.05	Nuisance Dust	15	10	
Silicon	7440-21-3	0.01-0.40	Nuisance Dust	15	10	
Aluminum	7429-90-5	0.02-0.09	Nuisance Dust *total **respirable dust	15*5**	10	
Antimony	7440-36-0	0.005-0.04	Antimony	0.5	0.5	
Columbium	7440-03-1	0.01-0.15	Nuisance Dust	15	10	
Titanium	7440-32-6	0.01-0.15	Nuisance Dust	15	10	
Boron	7440-42-8	0.005-0.01	Nuisance Dust	15	10	
Copper	7440-50-8	0.01-0.20	Copper Fume	0.1	0.2	

This product may contain trace elements such as: aluminum, arsenic, boron, cadmium, calcium, chromium, cobalt, columbium, copper, lead, molybdenum, nickel, phosphorus, silicon, sulfur, tin, tantalum, titanium, vanadium, and zirconium may be present in the trace amounts. \*Note - A coating of petroleum oil may be added for corrosion protection. © -Denotes Ceiling Limit

<b>Section 3.</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Boiling Point                      N/A  
Melting Point                      2400 to 2800 °F

<b>Section 4.</b>	<b>FIRST-AID MEASURES</b>
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EYE CONTACT :  
N/A

SKIN CONTACT :  
N/A

INGESTION :  
N/A

INHALATION :  
N/A

NOTE TO PHYSICIAN :  
N/A

<b>Section 5.</b>	<b>FIRE-FIGHTING MEASURES</b>
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FLASH POINT : (Method Used)              N/A

EXTINGUISHING MEDIA :  
N/A

FIRE AND EXPLOSION HAZARD :  
N/A

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :  
N/A

<b>Section 6.</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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PERSONAL PRECAUTIONS :  
N/A

METHODS FOR CLEANING UP :  
N/A

ENVIRONMENTAL PRECAUTIONS :  
N/A

<b>Section 7.</b>	<b>HANDLING AND STORAGE</b>
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**HANDLING :**

Avoid repeated skin contact. Wear suitable gloves, safety glasses and long sleeved shirts are recommended.

**STORAGE CONDITIONS :**

N/A

**SUITABLE CONSTRUCTION MATERIALS :**

Consult Federal, State and Local Regulations

<b>Section 8.</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**OCCUPATIONAL EXPOSURE LIMITS :**

**ENGINEERING MEASURES :**

Local exhaust: As required to maintain exposure below PEL

**RESPIRATORY PROTECTION :**

NIOSH approved respirator selected according to OSHA 29 CFR 1910.134 if PEL is exceeded

**HAND PROTECTION :**

Heavy Duty Cloth or Leather

**SKIN PROTECTION :**

Long sleeves and wristlets. Sensitized individuals may experience an allergic skin rash or asthma.

**EYE PROTECTION :** Safety Glasses/Goggles. Irritation of eyes, nose & throat. Allergic skin rashes. Possible metallic taste.

**HYGIENE RECOMMENDATIONS :** Wash thoroughly after handling, launder clothing & gloves

**HUMAN EXPOSURE CHARACTERIZATION :**

For skin rashes seek medical attention. Cleanse wounds thoroughly to remove any particles.

Remove to fresh air & seek medical attention.

**Iron Oxide:** *Acute* - Irritation of eyes, nose throat or metallic taste or metal fume fever

*Chronic* - Pulmonary effects, siderosis

<b>Section 9.</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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PHYSICAL STATE : Solid

APPEARANCE : Solid gray

ODOR : Odorless metal

SPECIFIC GRAVITY : 7.5 to 8.5

DENSITY :

SOLUBILITY IN WATER : N/A

pH (100%) : N/A

VAPOR PRESSURE : N/A

EVAPORATION RATE : N/A

VOC CONTENT : N/A

<b>Section 10.</b>	<b>STABILITY AND REACTIVITY</b>
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STABILITY :  
Stable

HAZARDOUS POLYMERIZATION :  
Will not occur

CONDITIONS TO AVOID :  
N/A

MATERIALS TO AVOID :  
Acids, Strong Oxidizers

HAZAROUS DECOMPOSITIONS PRODUCTS :  
Metal oxides of listed ingredients

<b>Section 11.</b>	<b>TOXICOLOGICAL INFORMATION</b>
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ACUTE ORAL TOXICITY :  
N/A

ACUTE DERMAL TOXICITY :  
Sensitized individuals may experience an allergic skin rash or asthma.

ACUTE INHALATION TOXICITY :  
\*Steel products in their natural state do not present an inhalation, ingestion or contact hazard.  
However, operations such as burning, cutting, welding, sawing, brazing an/or grinding may result in the following effects if the PEL as listed in Section II are exceeded.

SENSITIZATION :  
Sensitized individuals may experience an allergic skin rash or asthma.

CARCINOGENCITY :  
N/A

HUMAN HAZARD CHARACTERIZATION :

<b>Section 12.</b>	<b>ECOLOGICAL INFORMATION*</b>
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ECOTOXICOLOGICAL EFFECTS :

PERSISTENCY AND DEGRADATION :

MOBILITY :

SENSITIZATION :

CARCINOGENICITY :

HUMAN HAZARD CHARACTERIZATION :

<b>Section 13.</b>	<b>DISPOSAL CONSEDERATIONS*</b>
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Consult federal, state and local regulations

<b>Section 14.</b>	<b>TRANSPORT INFORMATION*</b>
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See State and Federal regulatory guidelines regarding proper transportation.

<b>Section 15.</b>	<b>REGULATORY INFORMATION*</b>
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Consult federal, state and local regulations

<b>Section 16.</b>	<b>OTHER INFORMATION</b>
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\* NOTE: Since other Agencies regulate this information, OSHA will not be enforcing Section 12 - 15.