

SAFETY DATA SHEET

Section 1. IDENTIFICATION

PRODUCT NAME: COLD ROLLED, LOW CARBON,

NICKEL/ZINC PLATED STEEL STRIP

COMPANY IDENTIFCATION: THOMAS STEEL STRIP

DELAWARE AVENUE, N.W.

WARREN, OHIO 44485

EMERGENCY TELEPHONE NUMBER: (330) 841-6111 **TELEPHONE NUMBER FOR INFORMATION:** (330) 841-6118 **DATE PREPARED:** MAY, 2015

Section 2. | HAZARD(S) IDENTIFICATION

HAZARDS COMPONENTS (Specific Chemicals Identity)				EXPOSURE LIMITS OSHA ACGIH ACGIH PEL TLV STEL		
Ingredients	CAS#	% (weight)	Exposure (PEL as)	mg/M^3		
Iron	7439-89-6	balance	Iron Oxide Fume	10	5	
¹ Zinc	7440-66-6	5.4 max.	Zinc Oxide Fume	5	1	
¹ Nickel	7440-02-0	1.0 max.	Nickel	1	1.5	
¹ & ² Chromium	7440-47-3	< 1.0 max.	Trivalent Chrome	1	0.5	
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	15*5	** 10	
			**respirable dust			
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	
Boran	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	

¹-SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT

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

²- THIS PRODUCT MAY BE TREATED WITH CHROMATE AT CUSTOMER'S REQUEST.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Boiling Point

N/A

Melting Point

2400 to 2800 ^OF

Vapor Density N/A

Section 4. | **FIRST-AID MEASURES**

EYE CONTACT:

N/A

SKIN CONTACT:

N/A

INGESTION:

N/A

INHALATION:

N/A

NOTE TO PHYSICIAN:

N/A

Section 5. FIRE-FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA:

N/A

FIRE AND EXPLOSION HAZARD:

N/A

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

N/A

Section 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

N/A

METHODS FOR CLEANING UP:

N/A

ENVIRONMENTAL PRECAUTIONS:

N/A

Section 7. HANDLING AND STORAGE

HANDLING:

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

STORAGE CONDITIONS:

SUITABLE CONSTRUCTION MATERIALS:

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

ENGINEERING MEASURES:

Ventilation - 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 & wristlets. Sensitized individuals may experience an allergic skin rash or asthma

EYE PROTECTION:

Safety Glasses/Goggles. Irritation of eyes, nose and throat. Allergic skin rashes. Possible metallic taste.

HYGIENE RECOMMENDATIONS:

Wash thoroughly after handling, launder clothing and gloves

HUMAN EXPOSURE CHARACTERIZATION:

For skin rashes seek medical attention. Cleanse wounds thoroughly to remove any particles. Remove to fresh air & seek medical attention

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

APPEARANCE: Silver/gray

ODOR: Odorless

SPECIFIC GRAVITY: 7.5 to 8.5

DENSITY: SOLUBILITY IN WATER: pH (100%): VAPOR PRESSURE: N/A EVAPORATION RATE: N/A VOC CONTENT:			
Section 10. STABILITY AND REACTIVITY			
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			
Section 11. TOXICOLOGIAL INFORMATION			
ACUTE ORAL TOXICITY:			
ACUTE DERMAL TOXICITY:			
ACUTE INHALATION TOXICITY:			
SENSITIZATION:			
CARCINOGENCITY:			
HUMAN HAZARD CHARACTERIZATION: **Steel products in their natural state do not present an inhalation, ingestion or contact hazard. However, operations such as burning, cutting, welding, sawing, brazing and/or grinding may result			

in the following effects if the PEL as listed in section ii are exceeded.

Section 12.	ECOLOGICAL INFORMATION*			
ECOTOXICOLO	OGICAL EFFECTS :			
PERSISTENCY AND DEGRADATION:				
MOBILITY:				
SENSITIZATION:				
CARCINOGENICITY:				
HUMAN HAZARD CHARACTERIZATION :				
Section 13.	DISPOSAL CONSEDERATIONS*			
Consult federal,	state and local regulations			

Section 14. | TRANSPORT INFORMATION*

See State and Federal regulatory guidelines regarding proper transportation.

Section 15. | **REGULATORY INFORMATION***

Consult federal, state and local regulations

Section 16. OTHER INFORMATION

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this information, but TSS extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of this information for any purchaser's use or for any consequence of its use.

* NOTE: Since other Agencies regulate this information, OSHA will not be enforcing Section 12 - 15.