

**G&H® Wire Company**2165 Earlywood Drive  
Franklin, IN 46131

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**MATERIAL SAFETY DATA SHEET DIRECTIVE 91/155/EEC**


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 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION
 

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- 1.1 Chemical Nature, Sales Name, Use: Metal, STS304 stainless steel, Polished Photographic Mirrors, Lingual, Buccal, Occlusal and Angled
- 1.2 Company Identification:  
G&H Wire Company  
P.O. Box 248  
Greenwood, Indiana 46142  
Telephone: 317-346-6655  
Facsimile: 317-346-6663
- 1.3 Emergency Contact: 317-346-6655

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 2. COMPOSITION/INFORMATION ON INGREDIENTS
 

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Ingredients	%	PEL/TLV 8 HOUR TWA UNLESS OTHERWISE NOTED
CHROMIUM 7440-47-3	18.0-20.0	PEL 1.0 MG/M3 TLV 0.5 MG/M3
NICKEL 7440-02-0	8.0-10.5	PEL 1.0 MG/M3 TLV 1.0 MG/M3
MANGANESE 7439-96-5	2.0	PEL 5.0 MG/M3 TLV 5.0 MG/M3
COBALT 7440-48-4	.08	PEL 0.1 MG/M3 TLV 0.1 MG/M3
SILICON CARBON PHOSPHORUS SULFUR	BALANCE	

PEL – Permissible Exposure Limits TLV-Threshold Limit Values.

\* THESE SUBSTANCES ARE REGULATED IN THEIR OXIDE FORM

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 3. HAZARDS IDENTIFICATION
 

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- 3.1 Specialty steel alloys are generally not considered hazardous in the form shipped (solid bars, billets wire, etc.), however, if your process involves grinding, melting, welding, cutting, or any other process that causes a release of dust or fume, hazardous levels of dust or fume of the constituents of these alloys could be generated

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 4. FIRST-AID MEASURES
 

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- 4.1 Inhalation: Move person to fresh air until recovered. Consult a physician.
- 4.2 Skin Contact: Wash with water and mild detergent.
- 4.3 Eye Contact: Flush thoroughly with water, consult a physician.
- 4.4 Ingestion: While ingestion of large enough quantities to cause health effects is unlikely. Consult a physician if it occurs.

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## 5. FIRE-FIGHTING MEASURES

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- 5.1 Suitable Extinguishing Media: N/A
- 5.2 Unsuitable Extinguishing Media: N/A
- 5.3 Particular Hazards: See step 3
- 5.4 Protective Equipment for Fire-Fighters: N/A

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## 6. ACCIDENTAL RELEASE MEASURES

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- 6.1 Personal Precautions:
  - Ventilation:  
If your process causes a release of dust or fume, use local and general exhaust ventilation to keep airborne concentrations of dust or fumes below the TLV.
  - Respiratory Protection:  
If your process causes a release of dust or fume in excess of the permissible exposure limit, use approved respirators for protection against airborne dust or fumes should be worn. Respirators should be used in accordance with 29CFR 1910.134.
  - Protective Equipment:  
Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis. If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn.
- 6.2 Environmental Precautions: No hazard
- 6.3 Cleaning Methods: N/A

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## 7. HANDLING AND STORAGE

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- 7.1 Handling: See step 6.1
- 7.2 Storage: N/A
- 7.3 Storage Conditions: N/A

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Minimize contact as outlined in step 6.1

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- 9.1 Form: Sheet  
Color: Solid  
Odor: Odorless
- 9.2 Change of State: liquid  
Melting Point/Range: 2400 F to 2800 F  
Boiling Point: HIGH

- 9.3 Flash Point: N/A
- 9.4 Ignition Point: N/A
- 9.5 Vapor Pressure (20°C): NIL
- 9.6 Density (20°C): 7.5 to 8.5 specific gravity
- 9.7 Solubility in: Water (20°C): insoluble  
Organic Solvent (20°C): insoluble
- 9.8 PH-Value (at 10g/1H<sub>2</sub>O): N/A
- 9.10 Viscosity (20°C): solid

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## 10. STABILITY AND REACTIVITY

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- 10.1 Thermal Decomposition: None
- 10.2 Conditions to Avoid: None
- 10.3 Materials to Avoid: None
- 10.4 Hazardous Decomposition Products: None

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## 11. TOXICOLOGICAL INFORMATION

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- 11.1 Oral Toxicity: Reference Step 3 and Step 6.1
- 11.2 Inhalation: Reference Step 3 and Step 6.1
- 11.3 Skin Irritation: Reference Step 3 and Step 6.1
- 11.4 Sensitization: Reference Step 3 and Step 6.1
- 11.5 Eye Irritation: Reference Step 3 and Step 6.1
- 11.6 Further Details: None

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## 12. ECOLOGICAL INFORMATION

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- 12.1 Acute Toxicity in Fish (LC-50/48h): not defined
- 12.2 Bacteria Toxicity (EC-0): not defined
- 12.3 Biodegradability: not defined
- 12.4 Further Details:

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## 13. DISPOSAL CONSIDERATIONS

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- 13.1 Product: N/A
- 13.2 Packaging: N/A
- 13.3 Waste Disposal Code: N/A

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## 14. TRANSPORT INFORMATION

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- 14.1 Overland Transport ADR/RID/GGVS/GGVE: N/A
- 14.2 Sea Transport GGVSEA/IMDG-Code: N/A
- 14.3 Air Transport ICAO/IATA-DGR: N/A
- 14.4 Inland Waterway Transport ADNR: N/A
- 14.5 Further Details: Product is not considered dangerous for transport

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## 15. REGULATORY INFORMATION

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Preparation as defined by the (German) Chemicals Act (dated 4/03/1990).

15.1 Labeling: N/A  
Product Contains:  
Danger Symbol:  
R-Sentences R36/37/38:  
S-Sentences S26:  
S-Sentences S28:

15.2 National Regulation:  
VbF:  
TA-Air:  
Water Pollution 1:

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16. OTHER INFORMATION

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16.1 The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. Therefore, it should not be construed as guaranteeing specific properties.

16.2 Revision Date: November 28, 2006