

**Hohmann & Barnard, Inc.**  
**Material Safety Data Sheet**  
**\*\*\* Stainless Steel Smooth & Threaded Rod \*\*\***

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Hohmann & Barnard, Inc.  
 30 Rasons Court  
 Hauppauge, NY 11788

**Section I: PRODUCT IDENTIFICATION**

This MSDS covers all grades of Stainless Steel supplied by Hohmann & Barnard, Inc.

DOT Hazardous Material Proper Shipping Name: N/A  
 DOT Hazardous Class: N/A  
 DOT Identification No.: N/A  
 Chemical Family Name: Steel  
 EPA Hazardous Waste No.: N/A

**Section II: HAZARDOUS COMPONENTS**

This section covers the material in the products as shipped and is applicable to mechanical cutting and grinding. The fumes and gases produced during welding are covered in Section VI.

<u>INGREDIENT</u>	<u>%</u>	<u>C.A.S. NUMBER</u>	<u>PEL*</u>	<u>TLV*</u>
Iron (Fe)	60-87	7439-86-6	None	None
Chromium (Cr)	11-27	7440-47-3	1	0.5
Nickel (Ni)	0-35	7440-02-0	1	1
Molybdenum (Mo)	0-4	7439-98-7	15	10
Manganese (Mn)	0-2	7439-96-5	C5*	C5
Copper (Cu)	0-4	7440-50-8	1	1
Silicon (Si)	0-5	7440-21-3	None	10
Columbium (Cb)	0-1	7440-03-1	None	None
Tantalum (Ta)	0-1	7440-25-7	None	5

\*PEL: Permissible Exposure Limit (mg/m<sup>3</sup>) OSHA (29CFR1910)

\*TLV: Threshold Limit Value (mg/m<sup>3</sup>) - ACGIH

\*C: Denotes Ceiling Level

**Section III: PHYSICAL DATA**

Boiling Point: N/A	Solubility in Water: N/A	Evaporative Rate: N/A
Vapor Pressure: N/A	Specific Gravity: N/A	pH: N/A
Vapor Density: N/A	% Volatile by Volume: N/A	

**Section IV: FIRE AND EXPLOSION DATA**

Products are nonflammable; however welding arcs and sparks can ignite flammable liquids, vapors and combustible solids.

#### **Section V: HEALTH HAZARD INFORMATION**

No toxic effects would be expected under normal usage. Prolonged, repeated exposure to fumes and gases generated during heating, brazing, cutting or welding may have adverse effects as follows:

- Short Term: Metallic taste, nausea, tightness of chest, fever, irritation of eyes, nose, throat and skin, loss of consciousness or death due to welding gases or the lack of oxygen.
- Long Term: Skin sensitization, neurological damage, respiratory disease such as bronchial asthma, lung fibrosis or pneumoconiosis. Nickel and chromium are considered possible carcinogens under OSHA (29CFR1910.1200)
- First Aid: Remove individual to fresh air. If victim is unconscious, administer oxygen. If the victim has stopped breathing, give artificial respiration. Get medical attention IMMEDIATELY.

#### **Section VI: REACTIVITY INFORMATION**

The composition and quantity of welding fumes and gases are dependent on the alloy being welded and the process and electrodes used. The constituents of the fumes are generally different from the ingredients listed in Section II and may include oxides of the metals, chromates, fluorides, and complex metallics. The gases may include carbon monoxide, ozone and oxides of nitrogen.

#### **Section VII: SPILL OR LEAK PROCEDURES**

Vacuum or sweep residue from cutting, grinding or welding operations into a suitable container. Dispose of in accordance with Local, State and Federal Regulations.

#### **Section VIII: PERSONAL PROTECTION INFORMATION**

Respiratory protection is necessary when exposure limits are exceeded during cutting, grinding and welding. Use a properly fitted NIOSH approved respirator in accordance with OSHA (29CFR1910.134).

Eye protection and protective clothing are required when cutting, grinding or welding. Wear gloves, face protection and flame retardant clothing. Do not expose skin.

#### **Section IX: SPECIAL PRECAUTIONS**

Use local exhaust when cutting, grinding or welding. Maintain exposures below PEL/TLV.

While the information and recommendations in this MSDS are believed to be accurate and reliable, Hohmann & Barnard, Inc. will not assume responsibility and will disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.