

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** Stainless wool and fiber (430, 434 and 316L)

**MSDS NUMBER:** 0015

**MSDS DATE:** November 17, 2009

**EMERGENCY PHONE #s:** 773-247-6000

**PRODUCT CODE:** GSS specifications

**KEY NUMBER:** stainless wool and fiber



International Polishing Techniques  
6683 Schuster Street Las Vegas NV 89118  
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<b>HEALTH</b>	<b>0</b>	Slightly Hazardous
<b>FIRE</b>	<b>1</b>	Flash Point: Above 200°F, 93°C
<b>REACTIVITY</b>	<b>1</b>	Unstable If Heated
<b>SPECIFIC</b>		-

## 1. IDENTIFICATION

**See Addendum:** Ref. PAGE: 4

**Chemical Name:** Stainless steel wool and fiber

**Chemical Family:** alloy of iron, chromium & nickel with various alloying elements (Mn, Si, Mo, Ti, Cu, etc.)

**CAS #:**

**Chemical Formula:**

**CAS Name:**

**Molecular Weight:**

**Synonyms / Common Name:** Stainless steel

**DOT Information:**

## 2. PHYSICAL DATA

**See Addendum:** Ref. PAGE:

**Appearance:** solid odorless metal  
**Color:** Silver/ gray  
**State:** solid  
**Odor Characteristics:** None  
**pH:**  
**Viscosity:**  
**Specific Gravity (Water = 1):** 7.5 - 8.5  
**Vapor Density (Air = 1):** n/a  
**Vapor Pressure:** n/a

**Melting Point:** 2500 - 2800 Degree F  
**Boiling Point:** High  
**Flash Point:** None  
**Freezing Point:**  
**Percent Volatility:** n/a  
**Evaporation Rate (BAC = 1):** n/a  
**Solubility in Water:** insoluble  
**Solubility in Oil:**  
**Solubility in Acetone:**

## 3. INGREDIENTS

**See Addendum:** Ref. PAGE: 4

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Aluminum	7429-90-5	Aluminum	5.00	
Carbon	1333-86-4	Carbon	3.5	
Chromium	7440-47-3	Chromium	0.5	
Cobalt	7440.48-4	Cobalt	0.10	
Copper	7440-50-81309-3	Copper	0.20	

## 4. FIRE AND EXPLOSION HAZARD DATA

**See Addendum:** Ref. PAGE:

**Flash Point:** n/a

**Flammable Limits in Air % by volume:** Lower not applicable  
Upper not applicable

**Extinguishing Media:** Use class D extinguishing material

**Special Fire Fighting Procedures:** Structural fire fighters must wear NIOSH-approved self contained breathing apparatus and full protective equipment with full face piece operated in the pressure demand mode. Incipient fire responders should wear eye protection.

**Unusual Fire & Explosion Hazards:** Moderate fire explosion hazard may exist when material is chopped and dispersed in air and exposed to heat/flames

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## 5. HEALTH HAZARD DATA

**See Addendum:** **PAGE #: 4**

**Threshold Limit Value:** Overexposure isn't anticipated to be a significant occurrence. Adequate ventilation is required when welding/cutting/grinding or burning this product. Dust/fume respirators are required if fume levels exceed TLV values.

### Effects of Overexposure:

**Inhalation:** Excessive inhalation of fumes or dust from burning/welding/grinding/ & cutting can produce an acute reaction known as metal fume fever.

**Skin Contact:** None known

**Eye Contact:** Eye contact may cause physical irritation with symptoms common with foreign body irritation.

**Ingestion:** Not expected to require first aid measures.

**Delayed Effects:** Not applicable

**Medical Conditions Aggravated by Exposure:** None identified

## 6. FIRST AID MEASURES

**See Addendum:** **PAGE #:**

**Inhalation:** Remove victim to fresh air. Victim must seek immediate medical attention if any adverse exposure symptoms develop

**Skin Contact:** Wash with running water. Remove contaminated clothing, taking care not to contaminate eyes. Victim must seek immediate medical attention if any adverse exposure symptoms develop

**Eye Contact:** Flush with running water for at least 15 minutes. Seek medical attention.

**Ingestion:** If product is swallowed, call poison control for the most current information. Seek medical attention when necessary.

**NOTES TO PHYSICIAN:** Treat symptoms

## 7. REACTIVITY DATA

**See Addendum:** **PAGE #:**

### Stability:

**Incompatibility: (materials to avoid)** Insoluble in water and alkalis. Corrodes in acids and certain salts.

**Hazardous Combustion or Decomposition Products:** Metal fumes

**Hazardous Polymerization:**

**Conditions to Avoid:**

## 8. SPILL OR LEAK PROCEDURES

**See Addendum:** **PAGE #:**

**Actions to take for Leaks & Spills:** Wear gloves

**Waste Disposal Method:** Dispose of according to state and local requirements. Solids - recycle as scrap.

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**9. SPECIAL PROTECTION INFORMATION**

**See Addendum:** **Ref. PAGE:**

**Respiratory Protection:** None needed under normal conditions of use. Use NIOSH approved respirators when applicable airborne exposure limits are exceeded or if ventilation is inadequate to control dusts, mists, fumes or vapors.

**Eye Protection:** Wear eye protection, such as safety glasses

**Skin Protection:** Protective gloves are recommended

**Other Clothing:** No specific body protection is normally needed

**Other Equipment:** None

**Engineering Controls:**

**10. HANDLING AND STORAGE**

**See Addendum:** **Ref. PAGE:**

**Special Precautions:** Store product in cool dry place

**Other Precautions:** Store product away from direct sources of intense heat. Store away from incompatible materials.

**11. REGULATORY INFORMATION**

**See Addendum:** **Ref. PAGE:**

**Workplace Classification:** HMIS personal protective equipment rating: industrial use situations: B; safety glasses and gloves

**12. TOXICOLOGICAL INFORMATION**

**See Addendum:** **Ref. PAGE:**

**Acute Data:** Currently, there is no toxicity data available for this product.

**Reproductive /  
Teratology Data**

**13. ECOLOGICAL INFORMATION**

**See Addendum:** **Ref. PAGE:**

**Fate in the Environment:** All workplace practices must be aimed at eliminating environmental contamination.

**14. DISPOSAL CONDITIONS**

**See Addendum:** **Ref. PAGE:**

**Procedures:** Waste disposal must be in accordance with appropriate US Federal, State and local regulations or with regulations of the country in which it is used. Solids - recycle as scrap.

**15. TRANSPORTATION INFORMATION**

**See Addendum:** **Ref. PAGE:**

**DOT Classification:**

**Warning Labels:** None

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### 16. OTHER INFORMATION

Information herein was obtained from sources which are believed to be authoritative and valid. However, no warranty, expressed or implied can be made.

Coated material must be evaluated with the proper safety practice for the coating involved.

### 3. INGREDIENTS - Ref. Pg. 1

No permissible exposure limits (PEL) or threshold limit values (TLV) exist for stainless steels. Values shown below and on page 1 are applicable to major component elements. These elements may appear in some or various combinations in any particular grade.

Iron	1309-37-1	5.00
Manganese	7439-96-5	1.00
Molybdenum	7439-98-7	10.00
Nickel	7440-02-0	1.00
Niobium	7440-03-1	5.00
Phosphor	7723-14-0	0.10
Silicon	7440-21-3	5.00
Sulfur	7446-09-5	5.00
Tin	7440-31-5	2.00
Titanium	13463-67-7	5.00
Tungsten	7440-33-7	5.00
Vanadium	1314-62-1	0.05

Coatings: Certain residuals may remain on the surface: those are alkaline salts, sodium soap is wire drawing lubricant residuals (<0.5% of weight of product).

### 5. HEALTH HAZARD DATA - Ref. Pg. 2

Nickel and chromium must be considered possible carcinogens under OSHA (29CFR1910.1200); however, recent studies of workers melting or working alloys containing these elements have been found to have no increased risk of cancer.

No toxic effects are expected from the alloy in the inert solid form. Excessive inhalation of fumes or dust from burning, welding, grinding, and cutting can produce an acute reaction known as metal fume fever. Nickel and chromium must be considered possible carcinogens under OSHA (29CFR1910.1200); however, recent studies of workers melting or working alloys containing these elements have been found to have no increased risk of cancer.

Maintain exposure levels below PEL/TLV using the proper ventilation and safety equipment.