

**1. IDENTIFICATION OF PRODUCT AND COMPANY:****1.1 Product Identity / Trade Name:**

Original Wire Wheels and Brushes – Mild Steel

**1.2 Product Use:**

Abrasive materials used on metals, concrete, masonry and building materials.

**1.3 Company:**

Company: Platinum North America

Address : 3922 - 51 Avenue NW  
Edmonton, AB  
T6B 3T5 CANADA

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**2. HAZARDS IDENTIFICATION**

This product is a solid gray metal brush with no odor.

**EMERGENCY OVERVIEW:**

Dust may cause eye and respiratory irritation. Dust particles or filings may cause abrasive injury to the eyes. Chromium can cause skin and/or respiratory sensitization.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Component	CAS#	%
Iron	7439-89-6	95 - 99
Manganese	7439-96-5	1.7 max
Chromium	7440-47-3	1.5 max
Silicon	7440-21-3	1.6 max

**4. FIRST AID MEASURES**

Ingestion: if dust is swallowed, seek medical attention.

Inhalation: if overexposed to dust, remove victim to fresh air and get medical attention.

Eye Contact: flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

Skin Contact: wash dust from skin with soap and water. Launder contaminated clothing before reuse.

**5. FIRE FIGHTING MEASURES**

Extinguishing Media: use any media that is appropriate for the surrounding fire.

Special Firefighting Procedures: none needed.

Unusual Fire and Explosion Hazards: this product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when brushed, machined or ground.

Hazardous Combustion Products: none known.

**6. ACCIDENTAL RELEASE MEASURES**

Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Notify authorities as required by local, state/provincial and federal regulations.

**7. HANDLING AND STORAGE**

Recommended Work Practices: Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking. Consider potential exposure to components of the base materials or coatings being brushed, machined or ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

In normal power brushing operations, the material being removed will fly off the brush with considerable force along with the brush filaments, which break off due to fatigue. The potential for serious injury exists for both the operator and others in the work area (possibly 50 feet or more from the brush). To protect against this hazard, before rotating the brush, during rotation and until the rotation stops, all persons in the area must wear safety goggles or full face shields over safety glasses with side shields, along with appropriate protective clothing.

Storage: store in a dry location.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure Guidelines:

Hazardous Component	OSHA PEL	ACGIH TLV
Iron (as iron oxide dust or fume)	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> (respirable fraction)
Manganese	5 mg/m <sup>3</sup> Ceiling	0.2 mg/m <sup>3</sup>
Chromium	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>
Silicon	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)	None Established

Note: consider also components of base materials and coatings being ground.

Ventilation: use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Respiratory Protection: use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Consider the potential for exposure to components of the coatings or base material being brushed or machined in selecting proper respiratory protection. Refer to OSHA's specific standards for lead, cadmium, etc. where appropriate. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Gloves: cloth or leather gloves are recommended.

Eye Protection: safety goggles or face shield over safety glasses with side shields.

Other: protective clothing as needed to prevent contamination of personal clothing.

Hearing protection may be required.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: not applicable.  
 Solubility in Water: insoluble.  
 Specific Gravity: not applicable.  
 Melting Point: not applicable.  
 Appearance and Odor: solid gray brushes, no odor.  
 Flash Point: non-combustible.

Vapor Pressure: (mm Hg) not applicable.  
 Vapor Density: (Air = 1) not applicable.  
 Evaporation rate: not applicable.  
 Flash Point: non-combustible.  
 Flammable Limits: LEL: not applicable.  
 UEL: not applicable.

**10. STABILITY AND REACTIVITY**

Stability: stable.

Incompatibility: none known.

Hazardous Decomposition Products: dust from grinding or brushing could contain ingredients listed in section 3 and other, potentially more hazardous components of the base material being ground or brushed or coatings applied to the base material.

Hazardous Polymerization: will not occur.

**11. TOXICOLOGICAL INFORMATION****HEALTH HAZARDS:**

Ingestion: none expected under normal conditions. Swallowing large pieces may cause obstruction of the gastrointestinal tract.

Inhalation: dust may cause respiratory irritation.

Eye: dust may cause eye irritation. Dust particles or filings may cause abrasive injury to the eye.

Skin: none expected under normal use conditions. Rubbing brush across the skin may cause mechanical irritation or abrasions.

Sensitization: chromium can cause skin and/or respiratory sensitization.

Chronic: long term overexposure to dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Skin and/or respiratory sensitization may also occur. Chronic effects may be aggravated by smoking. Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to dust/fumes from the material or paint/coatings being processed and the potential hazard from this exposure must be evaluated. Chronic exposure to manganese may cause nervous system damage.

Carcinogenicity: none of the components is listed as a carcinogen or potential carcinogen by OSHA, NTP, ACGIH or IARC.

Medical Conditions Aggravated by Exposure: employees with pre-existing respiratory disease may be at risk from exposure.

Acute Toxicity Values: this product and its components are not acutely toxic. The only acute toxicity data available for the components are listed below:

Iron: LD50 Oral rat 30 gm/kg

Manganese: LD50 Oral rat 9 gm/kg

Silicon: LD50 Oral rat 3160 mg/kg

**12. ECOLOGICAL INFORMATION**

No ecological data is available for this product. No hazards to the environment are expected from this product. However, consideration must be given to potential environment effects of the base material being processed.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the materials to determine the proper waste identification and disposal in compliance with applicable regulations.

**14. TRANSPORT INFORMATION**

DOT Hazardous Materials Description:

Proper Shipping Name: not regulated.

UN Number: none.

Hazard Class/Packing Group: none.

Labels Required: none.

**15. REGULATORY INFORMATION**

SARA Section 311/312 Hazard Categories: not applicable.

SARA Section 313: this product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting):

Manganese	7439-96-5	1.7% max
Chromium	7440-47-3	1.5% max

California Proposition 65: WARNING You create dust when you cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal. This dust often contains chemicals known to cause cancer, birth defects or other reproductive harm.

Canadian WHMIS Classification: not a controlled product. This product meets the definition of a "manufactured article" under WHMIS regulations.

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

**16. OTHER INFORMATION**

The above information is based on our current standard of knowledge and does not constitute any warranty of conditions of the product. The information does not form part of any contractual agreement. It remains the user's responsibility to adhere existing laws and regulations.