



## MATERIAL SAFETY DATA SHEET

Wall Colmonoy Corporation  
101 West Girard  
Madison Heights, MI 48071-1650  
Phone: 248-585-6400 FAX: 248-585-7960

### Section I. Identity:

**Product Name:** NICROBLAST GRIT  
**MSDS Date:** November 5, 2007

### Section II. Ingredients/Identity Information:

<u>COMPONENT</u>	<u>CAS No.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>PERCENT</u>
Chromium	7440-47-3	1 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	10-20
Nickel	7440-02-0	1 mg/m <sup>3</sup>	1.5 mg/m <sup>3</sup>	20-50
Silicon	7440-21-3	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	
Iron	(compound)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	

### Section III. Physical/Chemical Characteristics

**Boiling Point:** Not applicable      **Specific Gravity:** 7.8  
**Vapor Pressure:** Not applicable      **Melting Point:** 1930°F  
**Vapor Density:** Not applicable      **Evaporation Rate:** Not applicable  
**Solubility:** Not water soluble  
**Appearance and Odor:** Silver/gray metallic powder, no distinct odor.

### Section IV: Fire and Explosion Data

**Flash Point and Method Used:** None

**Extinguishing Media:** Do not use water on metal fires, use dry chemical, dry sand, or CO<sub>2</sub> to smother fire.

**Special Fire-Fighting Procedures:** Do not breathe fumes. For large fires involving this material, fire fighters should wear self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Fires or explosions may be initiated by exposing any concentrated dust suspension in an enclosed area to a spark or flame. This does not apply to product "as supplied" but to dust allowed to accumulate from grinding, or similar operations.

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### **Section V. Reactivity Data**

**Stability:** This product is stable.

**Conditions to Avoid:** Under special conditions, nickel can react with carbon monoxide in reducing atmospheres to form Ni (CO)<sub>4</sub>.

**Incompatibility:** Acids, strong oxidizing agents.

**Hazardous Decomposition or Byproducts:** In fire, carbon monoxide, oxides of chromium and nickel.

**Hazardous Polymerization:** Will not occur.

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### **Section VI. Health Hazard Data**

**Expected Route of Entry:** Inhalation of dust or fumes (if heated) would be main route of exposure. The type of process used in conjunction with this material is not expected to generate enough dust or fume to pose a significant health risk.

**Health Hazards (Acute and Chronic):** Chronic inhalation of dust or fumes may cause upper respiratory irritation, other effects associated with over exposure to metal dusts may include conjunctivitis or pneumoconiosis. Repeated handling of powder may cause skin rash in people sensitive to chromium or nickel.

**Carcinogens:** The National Toxicology Program (NTP) lists chromium as a known carcinogen and nickel and certain nickel compounds as reasonably anticipated to be carcinogens. The International Agency for Research on Cancer (IARC) lists chromium as carcinogenic to humans and nickel as possibly carcinogenic to humans.

**Symptoms of Exposure:** Sneezing, coughing, irritation of nose, throat or eyes. Skin rash.

**Medical Conditions that May be Aggravated:** Allergies, asthma, or other respiratory ailments.

**Emergency and First-Aid Procedures:** **Inhalation:** Remove affected person to fresh air. **Skin Contact:** Remove any contaminated clothing, wash areas thoroughly with mild soap and water.

**Eyes:** Flush with clean water until all particles are removed. **Ingestion:** If large amount, induce vomiting. If symptoms persist after any route of exposure, seek medical attention.

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### **Section VII. Precautions for Safe Handling and Use**

**Procedure in Case of Spill:** Take up by wet sweeping or vacuum. If vacuum exhausts to workplace, it should be fitted with HEPA filters. Do not create airborne dust. Save in covered, labeled containers for reuse or disposal.

**Waste Disposal Method:** Normally reclaimed for scrap metal values. If disposal is necessary, follow all regulations for metal waste of this nature.

**Precautions for Handling or Storing:** Keep away from strong oxidizing agents. Avoid repeated handling with bare skin. Do not eat or smoke in areas of use.

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### **Section VIII. Control Measures**

**Respiratory Protection:** If exposure limits are exceeded, wear NIOSH approved respirator giving protection from dusts/mists. See OSHA Respiratory Protection Standard 29 CFR 1910.134. **Recommended Ventilation:** Normally used in a grit-blast cabinet that has separate exhaust.

**Gloves:** If handling material is unavoidable, skin guard cream or work gloves are recommended. **Eye Protection:** Glasses or goggles to protect eyes from airborne particles.

**Section VIII. Control Measures (continued).**

**Work/Hygienic Maintenance Practices:** Grit-blast cabinets need to be regularly inspected and properly maintained to prevent leaks, cracks in sight glass, etc. Also make sure that cabinets are properly grounded.

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**General Health and Safety Warning:** THE FOLLOWING IS A PRECAUTIONARY STATEMENT THAT APPLIES TO ALL WELDING/BRAZING PRODUCTS: Keep your head out of the fumes. Use enough ventilation, exhaust at work, or both, to keep fumes and gases from your breathing zone. See American National Standard Z49.1 "Safety in Welding and Cutting" published by the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 333126 and OSHA 29 CFR 1910, available from the Superintendent of Documents, U.S. Government Printing Office, P.O. Box 371954, Pittsburgh, PA 15250-7954.

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**DOT Shipping Information:** This product is not regulated for shipping.

**HMIS Numbers:**

**Health: 1                      Flammability: 0                      Reactivity: 1**

**SARA Title III Information:**

The following materials are subject to the reporting requirements of Section 313 of Title III, of the Superfund Amendments & Reauthorization Act of 1986, and 40 CFR Part 372:

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**State Warning Information:**

**California:** This product contains a chemical known to the State of California to cause cancer.

**New Jersey:** This product contains the following materials listed on the New Jersey Right-To-Know Hazardous Substances List:

Substance 0432, Chromium                      CAS 7440-47-3, DOT No.: None

Substance 1341, Nickel                      CAS 7440-02-0, DOT No.: None

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**Toxic Substances Control Act Certification:**

This product complies with all applicable rules and/or orders under TSCA.

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The information supplied herein follows the guidelines of OSHA Hazard Communication Standard 29 CFR 1910.1200, and to the best of our knowledge, is accurate and complete. The recommended hygiene and handling practices are believed to be appropriate for the use of this material. However, it is up to the end user to review this information and establish their own procedures and guidelines based upon their particular application(s). WCC assumes no responsibility for damage or injury resulting from the possible misuse of this material.