



MANUFACTURERS OF CERAMIC COLORS

**Material Safety Data Sheet**

Date Prepared: May 2003  
Revision Date: April 2004

Product Number: 6190, 6666

**SECTION 1: Manufacturer Identification**

Mason Color Works, Inc.  
250 East 2nd Street/P.O. Box 76  
East Liverpool, OH 43920-5076

Phone: (330) 385-4400  
Fax: (330) 385-4488

HMIS Classification:

Health	2*
Flammability	0
Reactivity	0
Personal Protection	See Section 6

\*Indicates possible chronic health effects.

**SECTION 2: Identification of Product**

Chemical Family: Inorganic  
Product Names: Deep Brown 6190, Cobalt-free Black 6666  
Chemical Abstract Number(CAS): 68555-06-6  
Chemical Name: Chrome Iron Manganese - Spinel  
Chemical Formula:  $(Fe,Mn)(Fe,Cr,Mn)_2O_4$

**SECTION 3 & 4: Hazardous ingredients Identity/Information and Overexposure Symptoms**

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
<b>Chrome Oxide (Cr2O3)</b>	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>

Cas # 1313-13-2

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of carcinogenicity in humans/animals.

SYMPTOMS OF OVEREXPOSURE:

**Inhalation:** Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system.

**Eye Contact:** Mechanical irritation to the eye may occur such as watering, reddening do to exposure to fines.

**Skin Contact:** Expected to be non irritating.

**Ingestion:** Considered to be non-irritating, non-toxic if swallowed.

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
<b>Iron Oxide (Fe2O3)</b>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

Cas # 1309-37-1

ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans/animals. The value is for a particulate matter containing no asbestos and 1% crystalline silica.

SYMPTOMS OF OVEREXPOSURE:

**Inhalation:** Repeated and prolonged exposure may cause beginnings Pneumoconiosis called Sideordsis.

**Eye Contact:** May cause irritation.

**Skin Contact:** May cause mechanical skin irritation.

----- **Ingestion:** Expected to be non-toxic. -----

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
<b>Manganese Compound (Mn)</b>	0.2 mg/mg <sup>3</sup>	5 mg/mg <sup>3</sup>	1.0 mg/mg <sup>3</sup>
Cas # 7349-96-5			3.0 mg/mg <sup>3</sup>

**SYMPTOMS OF OVEREXPOSURE:**

**Inhalation:** Elemental Manganese fume and dust, when in high concentrations, may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mash-like facial expressions and paralysis.

**Eye Contact:** May cause irritation, if persists call doctor.

**Skin Contact:** May cause abrasions.

**Ingestion:** May cause irritation.

**SECTION 5: Emergency and First Aid Procedures**

**Eye:** flush thoroughly with water for 15 minutes.

**Skin:** remove contaminated clothing, wash thoroughly with soap and water.

**Inhalation:** remove to fresh air, may give oxygen if needed.

**Ingestion:** give large amounts of water to induce vomiting, only in conscious persons.

**IF THESE FIRST AID MEASURES FAIL, CONSULT A PHYSICIAN**

**Principal Routes of Entry:**

Inhalation: Dust from this product may cause irritation of the respiratory system.

Overexposure may cause lung damage.

Ingestion: Large amounts may cause irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

Skin & Eye: Nuisance dust, prolonged or repeated may cause irritation.

**SECTION 6: Special Protection Information**

Respiratory Protection: Use only NIOSHA/OSHA approved respiratory protection with adequate ventilation; avoid breathing dust. Do not exceed Occupational Exposure Limit. Wash thoroughly after handling. No food or beverage should be consumed in work area.

Personal Protective Equip: Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work stations.

Ventilation: Use local exhaust or mechanical such as a dust collector to maintain dust levels below Occupational Exposure Limits.

**SECTION 7: Physical and Chemical Characteristics**

Boiling Point: N/A

Solubility in water: trace

Vapor Pressure (mmHg): N/A

Vapor Density (air=1): N/A

Appearance:

Odor: Odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

**SECTION 8: Reactivity Data**

Stability: Stable

Hazardous Polymerization: will not occur

Incompatibility: None

Hazard Decomposition of product: N/A

**SECTION 9: Fire and Explosive Data**

Flash point: N/A

Flammable Limits:

Unusual Fire and Explosion Hazard: None expected.

Extinguishing Media: Carbon Dioxide, dry chemical or water

Special Fire Fighting Procedures: Wear self contained breathing apparatus when large quantities involved.

**SECTION 10: Spill or Leak Procedures**

Contain spillage and scoop or vacuum. Avoid making dust, put in appropriate container for disposal. Waste disposal method in accordance with Federal, State and Local Laws.

*This product is a blend of various metal oxides, salts and some compounds which are interfused by high calcinations to form the finished product. Section 3, Hazardous ingredients Identity/Information, and Section 4, Symptoms of Overexposure, pertain to individual components. Section 5 through Section 10 are in reference to the finished product.*

\*\*\*\*\* Attention all Retailers of Mason Stains

\*\*\*\*\*

***ALL retailers of this product are REQUIRED by law to supply their customers with a copy of material safety data sheet with initial purchase.***

**\*\*\*SARA 313**

This product contains certain oxides and compounds which are subject to reporting requirements of Superfund Amendment and Reauthorization Act ( **SARA**) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

**The information contained in this MSDS must be provided to every employee who is exposed to this product in any way. We recommend the user reads and understands the contents herein before using this material.**

**PLEASE KEEP ON FILE FOR FUTURE REFERENCE. DO NOT THROW AWAY! MSDS'S ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.**

**Disclaimer**