



MANUFACTURERS OF CERAMIC COLORS

**Material Safety Data Sheet**

Date Prepared: May 2003

Revision Date: April 2004

Product Number: 6211, 6236

**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: Pea Green 6211, Chartreuse 6236  
Chemical Abstract Number(CAS) 68186-95-8, 68186-93-6  
Chemical Name: Zirconium Tin Vanadium Green  
Chemical Formula: (Zr,V)SiO<sub>4</sub> + (Sn,V)O<sub>2</sub>

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

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
<b>Silica, Crystalline (SiO<sub>2</sub>)</b> Cas # 14808-60-7	0.1 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
		SiO <sub>2</sub> + 2	

**SYMPTOMS OF OVEREXPOSURE:**

**Inhalation:**

- a) Prolonged exposure to respirable crystalline silica (quartz) can cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Silicosis increases risk of Tuberculosis.
- b) Inhaled from occupational sources is classified as carcinogenic to humans. (cancer)
- c) There is evidence that exposure to respirable crystalline silica or that the disease Silicosis is associated with increased incidence of Scroderma, an auto-immune disorder manifested by fibrosis (scarring) of the skin and internal organs.
- d) Thjere are several studies suggesting that exposure to respirable silica or that the disease Silicosis is associated with the increased incidence of kidney disorders. (Nephrotoxicity)

**Eye Contact:** May cause abrasions of the cornea.

**Skin Contact:** Not applicable

**Ingestion:** Not applicable

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
<b>Tin Oxide (SnO)</b> Cas # 21651-19-4	2.0 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>	2.0 mg/m <sup>3</sup>

Cas # 21651-19-4

**SYMPTOMS OF OVEREXPOSURE:**

**Inhalation:** No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis a form of Phenumoconiosis.

**Eye Contact:** Abrasive, mild irritant

**Skin Contact:** Possible irritant.

**Ingestion:** Considered non-toxic.

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	ACGIH-TLVs	OSHA PELs	NOISHA RELs
<b>Vanadium Oxide (VO<sub>3</sub>)</b>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>

Cas # 1314-62-1

SYMPTOMS OF OVEREXPOSURE:

**Inhalation:** Irritation of the respiratory tract, chest tightness, wheezing, coughing

**Eye Contact:** Irritation possible with corneal injury.

**Skin Contact:** Irritation with reddening and itching. Absorption of harmful amounts possible

**Ingestion:** Abdominal discomfort, nausea, vomiting, cramping. Harmless greenish tongue discoloration.

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	ACGIH-TLVs	OSHA PELs	NOISHA RELs
<b>Zirconium Oxide (ZrO)</b>	10 mg/m <sup>3</sup> (total)	15 mg/m <sup>3</sup> (total)	5 mg/m <sup>3</sup>
Cas # 1314-24-4	5 mg/m <sup>3</sup> (Respirable)	5 mg/m <sup>3</sup> (respirable)	15 min. C

SYMPTOMS OF OVEREXPOSURE:

**Inhalation:** Acute inhalation to respirable dust which contains radioactive uranium, thorium and radium may cause lung cancer.

**Eye Contact:** May cause irritation with discomfort, tearing or blurring of vision.

**Skin Contact:** Not applicable.

#### **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  
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.

Flammable Limits:

**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**