



MANUFACTURERS OF CERAMIC COLORS



Distributed by:
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Material Safety Data Sheet

Product Number: 6405, 6406, 6407

Date Prepared: May 2003

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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

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HMS 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: Naples 6405, Buttercup 6406, Marigold 6407
Chemical Abstract Number(CAS) 68187-15-5, 68187-13-3, 10101-52-7
Chemical Name: Iron Zirconium Praseodymium Yellow - zircon
Chemical Formula: (Zr,Fe,Pr)SiO₄

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

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Iron Oxide (Fe₂O₃)	5 mg/m ³	10 mg/m ³	5 mg/m ³
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.

Praseodymium Oxide (P₆O₁₁)

Cas # 12037-29-5

SYMPTOMS OF OVEREXPOSURE:

- Inhalation:** Dust from this product may cause irritation of the respiratory system. Overexposure may cause lung damage.
 - Eye Contact:** May cause irritation with discomfort, tearing or blurring of vision.
 - Skin Contact:** Not applicable.
 - Ingestion:** Not applicable
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	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Silica, Crystalline (SiO₂)	0.1 mg/m ³	10 mg/m ³	0.05 mg/m ³
Cas # 14808-60-7		SiO ₂ + 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 Sceroderma, 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
Zirconium Oxide (ZrO)	10 mg/m ³ (total)	15 mg/m ³ (total)	5 mg/m ³
Cas # 1314-24-4	5 mg/m ³ (Respirable)	5 mg/m ³ (respirable)	15 min. C

SYMPTOMS OF OVEREXPOSURE:

Inhalation: Acute inhalation to respirable dust which contains radioactive uranium, tohium 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 statiions 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