



MANUFACTURERS OF CERAMIC COLORS



Distributed by:
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Material Safety Data Sheet

Product Number: 6024, 6025, 6026, 6027, 6022, 6033, 6421, 6021, 6028, 5987, 5988
k5997

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
Fax: (330) 385-4488

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: Orange 6024, Coral Red 6025, Lobster 6026, Tangerine 6027, Shrimp 6022,
Sunset 6033, Bright Yellow 6421, Dark Red 6021, Orange 6028, Red k-5987, Red k-5988, Red k-5997
Chemical Abstract Number(CAS):72828-62-7
Chemical Name: Encapsulated Zircon/Cadmium Pigment

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

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cadmium/Selenium Compound (CdSeS)	0.01 mg/mg ³ (total)	.005 mg/m ³	0.1 mg/m ³
Cas # 7440-43-9	.002 mg/mg ³ (respirable)		

ACGIH, OSHA, IARC, NTP: consider various forms of cadmium are to be carcinogenic.

SYMPTOMS OF OVEREXPOSURE:

Inhalation: Overexposure to Cd can result in metallic taste in mouth, headache, shortness of breath, chest pains, weakness, leg pains and fluid in the lung. These symptoms may be delayed, sometimes occurring 4-8 hrs. after exposure. Long term overexposure to cadmium fumes and dust have been associated with emphysema, bronchitis and kidney damage. Chronic overexposure to metal and cadmium compounds, such as cadmium oxide, cadmium sulfide, cadmium sulfate and cadmium chloride, may result in lung cancer, although a definite cause-effect relationship has not been fully established.

Eye Contact: May cause irritation.

Skin Contact: May cause irritation.

Ingestion: Swallowing may result in severe nausea, vomiting, diarrhea, stomach cramps, salivation, headache, muscle cramps and dizziness.

	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:

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- 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

Odor: Odorless

Specific Gravity (water=1): N/A

Evaporation rate: None

% Volatile by volume: None

Appearance:

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.

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