



MANUFACTURERS OF CERAMIC COLORS



Distributed by:
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Material Safety Data Sheet

Product Number: 6373, 6393

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: Turquoise Blue Stains 6373, 6393
Chemical Abstract Number(CAS) 68186-95-8, 18282-10-5, 68187-49-5, 10101-52-7
Chemical Name: Cobalt Chrome Zirconium Vanadium Blue
Chemical Formula: (Zr,V)SiO₄ + CoCr₂O₄

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

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Alumina Oxide (Al₂O₃)	10 mg/mg ³ (total)	15 mg/m ³ (total)	N/A
Cas # 1344-28-1		5 mg/m ³ (respirable)	

ACGIH: The value for particulate matter containing no asbestos and 1 % crystalline silica.

SYMPTOMS OF OVEREXPOSURE:

Inhalation: Acute may cause coughing and shortness of breath. Chronic may adversely effect breathing capacity.

Eye Contact: Direct contact may cause irritation.

Skin contact: May cause abrasions.

Ingestion: May cause irritation.

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cobalt Oxide (Co₃O₄)	0.02 mg/m ³	0.5 mg/m ³	N/A
Cas # 1308-06-1			

ACGIH: Animal carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route(s) of administration at site, or histologic type, or by mechanism considered relevant to workers exposure. Available epidemiologis studies do not confirm an increased risk of cancer in humans except under common levels of exposure.

SYMPTOMS OF OVEREXPOSURE:

Inhalation: Prolonged inhalation of dust or metal dust, and fume or mist containing cobalt may

cause serious respiratory illness. May cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath.

Eye Contact: May cause serious eye irritation.

Skin Contact: Prolonged exposure may produce irritation

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

	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		<u>SiO₂ + 2</u>	

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
Tin Oxide (SnO)	2.0 mg/m ³	2.0 mg/m ³	2.0 mg/m ³
Cas # 21651-19-4			

SYMPTOMS OF OVEREXPOSURE:

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

Eye Contact: Abrasive, mild irritant

Skin Contact: Possible irritant.

Ingestion: Considered non-toxic.

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Vanadium Oxide (VO₃)	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
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.

	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 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	Odor: Odorless
Solubility in water: trace	Specific Gravity (water=1): N/A
Vapor Pressure (mmHg): N/A	Evaporation rate: None
Vapor Density (air=1): N/A	% 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 CRF, 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