

Material Safety Data Sheet

Date Prepared: May 2003

Product Number: 6373, 6393 Revision Date: April 2004

SECTION 1: Manufacturer Identification

 Mason Color Works, Inc.
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East Liverpool, OH 43920-5076

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: 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 (Al₂,O₃) 10 mg/mg³ (total) 15 mg/m³ (total) N/A

Cas # 1344-28-1 5 mg/m³ (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 (Co_3O_4) 0.02 mg/m³ 0.5 mg/m³ N/A

Cas # 1396-06-1

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/m³

 0.05 mg/m^3

NOISHA RELs

0.05 mg/m³

Cas # 14808-60-7

SiO₂ + 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 2.0 mg/m³ 2.0 mg/m³ 2.0 mg/m³

Tin Oxide (SnO)
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 0.05 mg/m³ 0.05 mg/m³

Cas # 1314-62-1

Vanadium Oxide (VO₃)

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/m³ (total) 15 mg/m³ (total) 5 mg/m³ Cas # 1314-24-4 5 mg/m³ (Respirable) 5 mg/m³ (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.

<u>Ingestion:</u> 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 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 Flammable Limits:

<u>Unusual Fire and Explosion Hazard</u>: None expected. <u>Extinguishing Media</u>: Carbon Dioside, 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 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.

Disclamer