Material Safety Data Sheet

Date Prepared 3/2000

Product Number: 6464

Section 1: Manufacturer Identification

Mason Color Works, Inc.                                  Phone: (330) 385-4400
250 East 2nd Street/P.O. Box 76                          Fax:    (330) 385-4488
East Liverpool, OH  43920-5076

Section 2: Identification of Product

Chemical Family:        Inorganic
Product Names:          Zirconium Yellow 6464
Chemical Abstract Number (CAS): 68187-01-9
Chemical Name:          Zirconium Vanadium Yellow - Baddeleyite
Chemical Formula:       $(Z,V)O_2$

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

|  | ACGIH-TLVs | OSHA PELs | NOISHA RELs |
|---|---|---|---|
| **Titanium Dioxide (TiO$_2$)**<br>Cas # 13463-67-7 | 10  mg/m$^3$ | 10  mg/m$^3$ (total) | 0.2  mg/m$^3$<br>5 mg/m$^3$ (respirable) |

Symptoms of overexposure:
        **Inhalation:** Inhalation of dust can cause irritation of the nose, throat, and lungs.
        **Eye Contact:** Like any foreign body, particles can cause mechanical irritation.
        **Skin Contact:** This material can cause irritation if not promptly washed form skin.
        **Ingestion:** This material is not expected to produce adverse effects.

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|---|---|---|---|
| **Vanadium Oxide (VO$_3$)**<br>Cas # 1314-62-1 | 0.05 mg/m$^3$ | 0.05 mg/m$^3$ | 0.05 mg/m$^3$ |

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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|---|---|---|---|
| **Zirconium Oxide (ZnO)**<br>Cas # 1314-13-2 | 10 mg/m$^3$ (total)<br>5 mg/m$^3$ (respirable) | 15 mg/m$^3$ (total)<br>5 mg/m$^3$ (respirable) | 5 mg/m$^3$<br>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.

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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 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 Limits.
                            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: oderless
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: yellow powder

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: None
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.

Section 10: Spill or Leak Procedures:

Contain spillage and scoop or vaccum.  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 calcination to form the finished product. Section III, Hazardous Ingredients Identity/Information, and Section IV, Symptoms of Overexposure, pertain to individual components. Section V through Section X 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 this 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 Material Safety Data Sheet 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 ! MATERIAL SAFETY DATA SHEETS ARE REQUIRED FOR FIRST SHIPMENT, AND WILL BE SENT AGAIN WHEN REVISED UPON YOUR NEXT ORDER OF PRODUCT OR BY REQUEST.**

*DISCLAMER*

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