Material Safety Data Sheet

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: Vanadium Yellow 6440
Chemical Abstract Number (CAS): 68186-93-6
Chemical Name: Tin Vanadium Yellow - Cassierite
Chemical Formula: (Sn,V)O₂

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

<table>
<thead>
<tr>
<th></th>
<th>ACGIH-TLVs</th>
<th>OSHA PELs</th>
<th>NOISHA RELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alumina Oxide (Al₂O₃)</td>
<td>10 mg/m³  (total)</td>
<td>15 mg/m³  (total)</td>
<td>N/A</td>
</tr>
<tr>
<td>Cas # 1344-28-1</td>
<td></td>
<td>5 mg/m³  (respirable)</td>
<td></td>
</tr>
</tbody>
</table>

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.

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</thead>
<tbody>
<tr>
<td>Tin Oxide (SnO)</td>
<td>2.0 mg/m³</td>
<td>2.0 mg/m³</td>
<td>2.0 mg/m³</td>
</tr>
<tr>
<td>Cas # 21651-19-4</td>
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Symptoms of overexposure:

Inhalation: No information found on acute overexposure. Chronic exposure to tin oxide fumes or dust may result in Stannosis, a form of Phenumoconiosis.
Eye Contact: Abrasive, mild irritant
Skin Contact: Possible irritant.
Ingestion: Considered non-toxic.

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</thead>
<tbody>
<tr>
<td>Titanium Dioxide (TiO₂)</td>
<td>10 mg/m³</td>
<td>10 mg/m³  (total)</td>
<td>0.2 mg/m³</td>
</tr>
<tr>
<td>Cas # 13463-67-7</td>
<td></td>
<td></td>
<td>5 mg/m³  (respirable)</td>
</tr>
</tbody>
</table>

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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</thead>
<tbody>
<tr>
<td>Vanadium Oxide (VO₃)</td>
<td>0.05 mg/m³</td>
<td>0.05 mg/m³</td>
<td>0.05 mg/m³</td>
</tr>
<tr>
<td>Cas # 1314-62-1</td>
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</tbody>
</table>
Vanadium Oxide cont’d

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.

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:** 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:** 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 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 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.

DISCLAIMER

Mason Color Works, Inc. believes the information contained in this material safety data sheet is believed to be accurate and reliable as of the date of publication or revision but makes no warranty that it is. This information provided should be made available as required by the Federal OSHA Hazard Communication Standard 1910.1200 to ANYONE who handles, uses, stores, transports or will otherwise be exposed to this product. Mason Color Works, Inc. Accepts no Responsibility for the health or safety of any individual who misuses this product by not complying with manufacturer’s instructions contained herein or additional /other measures that may be required under particular conditions.

Last issued: 11/97
Updated: 3/2000