**Safety Data Sheet**

**6404  TIN VANADIUM YELLOW CASSITERITE**

**HMSI Classification:**

Health  
0  
Flammability  
0  
Reactivity  
0  
Personal Protection  
See Section 8

1.1 Product identifier

**Product name**

TIN VANADIUM YELLOW CASSITERITE

Tin Vanadium Yellow Cassiterite, an inorganic pigment, is a reaction product of high temperature calcination in which Tin (IV) Oxide and Vanadium (V) Oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of cassiterite.

Its composition may include any one or a combination of the modifiers Al2O3, Fe2O3, MgO, NiO, SiO2, or TiO2

**Product number**

6404 VANADIUM YELLOW

**EC no.**

269-055-8

**CAS no.**

68186-93-6

**Index no.**

C.I. 77862

1.4 Supplier’s details

**Name**

Mason Color Works Inc.

**Address**

250 East Second Street  
East Liverpool, Ohio 43920  
USA

**Telephone**

330 385 4400

**Fax**

330 385 4488

SECTION 2: Hazard identification

**Signal Word:** WARNING

GHS classification in accordance with OSHA (29 CFR 1910.1200)

H303: May be harmful if swallowed

H313: May be harmful in contact with skin

H317: May cause an allergic skin reaction

H333: May be harmful if inhaled

H335: May cause respiratory

**GHS classification:** Not a hazardous substance

P261: Avoid breathing dust.

P262: Do not get in eyes, on skin.

P264: Wash hands thoroughly after handling.

SECTION 3: Composition/information on ingredients

**TIN VANADIUM YELLOW CASSITERITE**  
C.I. Pigment Yellow 158  
100%

**EC no.**

269-055-8

**CAS no.**

68186-93-6

**Index no.**

C.I. 77862

**Formula**

(Sn,V)O2

SECTION 4: First-aid measures

• Contact with skin:  
Wash with plenty of water and soap.

• Contact with eyes:  
Wash immediately with water for at least 10 minutes.

• Swallowing:  
Seek a medical examination immediately and present the safety-data sheet.

• Inhalation:  
Ventilate the premises.

The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

SECTION 5: Fire-fighting measures

• Recommended extinguishers:  
Water, CO2, Foam, Chemical powders, according to the materials involved in the fire.

• Extinguishers not to be used:  
None in particular.

• Risks arising from combustion:  
Avoid inhaling the fumes.

• Protective equipment:  
Use protection for the respiratory tract.
SECTION 6: Accidental release measures

• Measures for personal safety:
  Use gloves and protective clothing. In the event of particulates aerosols use respiratory protection.

• Environmental measures:
  Keep away from drains, surface- and ground-water and soil
  Limit leakages with earth or sand. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.
  Remove the waste materials with a suitable device (for instance a suction pump) and dispose.
  After the product has been recovered, rinse the area and materials involved with water.

• Cleaning methods:

SECTION 7: Handling and storage

• Handling precautions:
  Wear suitable gloves, glasses and face protection. Avoid contact and inhalation of the vapours/powders.
  Do not eat or drink while working.

• Incompatible materials:
  None in particular.

• Storage conditions:
  Always keep the containers tightly closed.

• Instructions as regards storage premises:
  Adequately ventilated premises.

SECTION 8: Exposure controls / personal protection

Personal protective equipment
Respiratory protection:
Suitable respiratory protection for higher concentrations or long-term effect: Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).
Hand protection:
Chemical resistant protective gloves (EN 374)
e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other
Manufacturer’s directions for use should be observed because of great diversity of types.
Eye protection:
Safety glasses with side-shields (frame goggles) (EN 166)
General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Hands and/or face should be washed before breaks and at the end of the shift.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form</td>
<td>Yellow/ powder</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>4.5</td>
</tr>
<tr>
<td>pH</td>
<td>7.2</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>&gt;1000°C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>NA</td>
</tr>
<tr>
<td>Flash point</td>
<td>NA</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>NA</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>none</td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td>NA</td>
</tr>
<tr>
<td>Upper/lower explosive limits</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor density</td>
<td>NA</td>
</tr>
<tr>
<td>Relative density</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>insoluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>NA</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>NA</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>NA</td>
</tr>
<tr>
<td>Viscosity</td>
<td>NA</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>none</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>none</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

Chemical stability
STABLE

Possibility of hazardous reactions
WILL NOT OCCUR

Incompatible materials
NONE

Hazardous decomposition products
N/A

SECTION 11: Toxicological information

ORAL
LD50 (male and female rats) > 2000 mg/kg bw

INHALATION
LC50 (rats; 4 hours) > 5.06 mg/L air

SKIN
NON IRRITATING TO THE SKIN
NON IRRITATING TO THE EYES

THIS PIGMENT IS NOT LISTED IN THE NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS.
IT IS NOT LISTED AS A POTENTIAL CARCINOGEN IN THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS.
IT IS NOT FOUND TO BE A CARCINOGEN BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

SECTION 12: Ecological information

ECOTOXICITY
NO DATA

DEGRADABILITY
NO DATA

MOBILITY
NO DATA

BIOACCUMULATIVE
NO DATA

SECTION 13: Disposal considerations

Disposal of the product
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.

Disposal of contaminated packaging
Dispose of as unused product.

Waste treatment
MUST BE PROCESSED THROUGH IN-HOUSE TREATMENT

Sewage disposal
AVOID CITY DRAINS

SECTION 14: Transport information

14.1 UN Number
None

14.2 UN Proper Shipping Name
None

14.3 Transport hazard class(es)
None

14.4 Packing group
None

14.5 Environmental hazards
None

14.6 Special precautions for user
None

14.7 Transport in bulk according to Annex II of
MARPOL 73/78 and the IBC Code
None
SECTION 15: Regulatory information

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

SECTION 16: REFERENCE INFORMATION

CPMA CLASSIFICATION AND CHEMICAL DESCRIPTIONS OF THE COMPLEX INORGANIC COLOR PIGMENTS
Fourth Edition - January 2013 Update

https://www.osha.gov/index.html

http://chem.sis.nlm.nih.gov/chemidplus

http://monographs.iarc.fr/ENG/Classification/index.php
The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area.