Safety Data Sheet

DATE PREPARED 4/28/2015 UPDATED: 6/27/2016

STANDARD K-20

6404 TIN VANADIUM YELLOW CASSITERITE

MANUFACTURERS OF CERAMIC COLORS

HMIS Classification:	
Health	2*
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 Al_2O_3, Fe_2O_3, MgO, NiO, SiO_2, or TiO_2

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 Livepool, 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) Not a hazardous substance

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

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

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Formula $(Sn,V)O_2$

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.
  A suspension of activated charcoal in water, or liquid paraffin may be administered.
- **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, CO_2, 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
•Cleaning methods:	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.

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

Appearance/form	Yellow/ powder
Odor	None
SPECIFIC GRAVITY	4.5
pH	7.2
Melting point/freezing point	>1000c
Initial boiling point and boiling range	NA
Flash point	NA
Evaporation rate	NA
Flammability (solid, gas)	none
Upper/lower flammability limits	NA
Upper/lower explosive limits	NA
Vapor pressure	NA
Vapor density	NA
Relative density	NA
Solubility(ies)	insoluble
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	NA
Explosive properties	none
Oxidizing properties	none

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	N/A

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.

Disclamer

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

13th Report on Carcinogens on October 2, 2014.
http://monographs.iarc.fr/ENG/Classification/index.php