

SECTION I - IDENTIFICATION OF PRODUCT

Supplier's name: Mason Color Works, Inc. emergency telephone no. 216-385-4400

Address: 250 E. 2nd Street, P.O. Box 76, East Liverpool, Ohio 43920

Date this form prepared: May 1991. Responsible for preparation: Ronald K. Mason. Chemical Family: Inorganic Pigment

Trade Name: Titanium Yellow 6485 (385). CAS Number: 68186-90-3\*

Chemical Name: Chrome Antimony Titanium Yellow. Basic Chemical Formula: (Ti, Cr, Sb)O<sub>2</sub>. R. J. RUTH  
MAR 26 1992

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% Wt.	ACGIH-TWA	OSHA-PEL
TITANIUM OXIDE CAS # 13463-67-7	85%-90%	10 mg/m <sup>3</sup> total dust & respirable fraction	10 mg/m <sup>3</sup> total dust & respirable fraction
ANTIMONY OXIDE CAS # 1309-64-4	10%-15%	0.5 mg/m <sup>3</sup> as Sb	0.5 mg/m <sup>3</sup> as Sb
CHROME OXIDE CAS # 1308-38-9	less than 5%	0.5 mg/m <sup>3</sup> as Cr	0.5 mg/m <sup>3</sup> as Cr

\* Contains modifiers

### SECTION III - SYMPTOMS OF OVEREXPOSURE

Titanium - Temporary drying effect or irritation of mucous membrane may result from excessive exposure. May have drying effect or cause irritation to skin. Possible lodging of solid particles in eyes may cause irritation. May be harmful if swallowed.

Antimony - Prolonged excessive absorption of antimony oxide in sufficient quantities may produce gastrointestinal upset, nervous complaints, inflammation of the mucous membrane of the nose and throat, metallic taste and stomatitis. May cause skin irritation.

Chrome - Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system. Causes skin and eye irritation. According to OSHA CFR 1900-1200 (Hazard Communications) Chromium Compounds are deemed to be a possible cancer hazard. This is based on assessment by the NTP (National Toxicology Program) that they reasonably be anticipated to be a carcinogen and an assessment of IARC (International Agency of Research on Cancer) which concluded that the evidence of carcinogenicity to humans was sufficient. However, there have been no studies demonstrating an excess cancer risks in workers exposed to chromite oxide in their use.

SECTION IV - HEALTH HAZARD DATA

Occupational exposure limits

See Section II

Effect of overexposure

- EYE - May cause irritation.
- SKIN - Skin contact may cause irritation, allergic dermatitis.
- INHALATION- Inhalation of concentration above the Occupational Exposure Limit may cause irritation of respiratory passages.
- INGESTION - Toxic, may cause excessive coughing, intestinal disorders.

EMERGENCY AND FIRST AID PROCEDURES

- EYE - Flush thoroughly with potable water for 15 minutes. Consult physician.
- SKIN - Remove contaminated clothing, wash thoroughly with soap & water. Consult physician.
- INHALATION- Remove to fresh air. May give oxygen. Consult physician.
- INGESTION - Induce vomiting if conscious. Consult physician.

SECTION V - SPECIAL PROTECTION INFORMATION

Respiratory protection (specific type)- Use NIOSH approved respiratory protection where airborne level exceeds appropriate Occupational Exposure Limit.

Ventilation	Local exhaust	special
	mechanical (general)	N/A
		other adequate to maintain below exposure limit

Personal protective equipment - Wear appropriate gloves & goggles to avoid skin and eye contact. Safety showers and eye stations must be present in work area.

SECTION VI - SPECIAL PRECAUTIONS

Precautions to be taken in handling & storing - Keep container closed. Protect physical damage. Avoid contact with eyes, skin & clothing.

Other precautions - Avoid breathing and use only with adequate ventilation. Wash thoroughly after handling. No food or beverage should be consumed in work area.

SECTION VII - PHYSICAL DATA

Boiling point (F°)	appearance & odor	specific gravity (water=1)	% volatile by volume
N/A	Yellow powder - odorless	N/A	None
Solubility in water	vapor pressure (mm Hg)	vapor density (air=1)	evaporation rate
Trace	N/A	N/A	None

SECTION VIII - REACTIVITY DATA

STABILITY	unstable	conditions to avoid	hazardous polymerization	may occur	conditions to avoid
	stable			will not occur	
Stability (materials to avoid)		N/A		X	N/A

N/A

Hazard decomposition products

N/A

## SECTION IX - FIRE AND EXPLOSIVE DATA

Flash point (method used)	flammable limits	LEL	UEL
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Non-Flammable	N/A		
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Extinguishing media	Carbon dioxide, dry chemical or water spray		
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Special fire fighting procedures	Not a fire hazard. Wear self-contained breathing apparatus when large quantities are involved.		
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Unusual fire & explosion hazard	None expected.		
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## SECTION X - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Contain spill. Pick up the spill in an appropriate container for disposal		
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Waste disposal method	Dispose in accordance with Federal, State and Local Laws.		
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## MATERIAL OR COMPONENT

This product is a mixture of various metal oxides, salts and some compounds, considered to be nuisance dust, are interfused to form the final product which does not represent individual components.

This product contains the compounds Antimony and Chrome. These toxic chemicals are subject to the 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 CFR, Part 372.

This Material Safety Data Sheet should be made available by the buyer to each of buyer's plant workers.

The buyer assumes all risk in connection with the use and handling of the material. The seller assumes no responsibility or liability in connection with the information supplied in this sheet or for any damage or injury caused by the material; reasonable safety procedures should be followed. The seller assumes no responsibility for injury or damage caused by use of the material even if reasonable safety procedures are followed. The information contained in this sheet is developed from what is believed to be accurate and reliable sources but the seller makes no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.