

Mad Oils, Inc.  
7231 Haverhill Business Pkwy  
Suite #206  
Riviera Beach, Florida 33407  
561-845-0050 www.madoils.com

## MATERIAL SAFETY DATA SHEET

### PRODUCT IDENTIFICATION

Trade Name: **Titanium Dioxide, USP**  
Chemical Name: Metal Oxide  
Chemical Formula: TiO<sub>2</sub>  
COLOUR INDEX # (CI): 77891  
C.A.S.# 13463-67-7  
HMIS Rating      Health            1  
                         Flammability      0  
                         Reactivity         0

These products are produced to the highest purity standards possible.

### COMPOSITION

OSHA PEL:            15mg/m<sup>3</sup> (total)  
                         5 mg/m<sup>3</sup> (Respirable)  
ACGIH TLV:         10mg/m<sup>3</sup> (total-TWA)  
                         5 mg/m<sup>3</sup> (Respirable)

### PHYSICAL AND CHEMICAL PROPERTIES

Characteristics:      Fine, white, odorless powder  
**No unusual fire or spill hazard. Low health risk by inhalation.**

MELTING POINT:    No data  
DENSITY:            2.3-2.7g/ml  
SOLUBILITY:         IN WATER

#### OSHA Hazard Communication Standard Status

This product is not considered to be a hazardous substance under OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200.

#### Toxic Substances Control Act (TSCA) Status

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All of the ingredients of this material have been reported to the U.S. EPA and are included in the TSCA chemical inventory.

SARA Title III

Section 302 (EHS) NONE

Section 311/312 (Acute) NONE

RCRA Not regulated as a hazardous waste under RCRA. EINECS No.: 236-675-5

## HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

Chemically stable. Product is non-combustible and does not present a fire hazard or other immediate concerns for emergency responders. May get slippery when wet.

### FIRST AID MEASURES

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes and seek medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. If irritation persists, seek medical advice.

INHALATION: Remove to fresh air. If breathing is labored or stopped, give artificial respiration. Get immediate medical attention.  
Low health risk by inhalation. Treat as a nuisance dust.  
**Oral LD 50-greater than 7,500 mg/kg (rats).**

INGESTION: If swallowed, dilute with large amounts of water. Do not induce vomiting. Seek immediate medical attention.

### FIRE FIGHTING MEASURES

Nonflammable.

**Flashpoint: none.**

#### Extinguishing Media

Use

#### Special Fire-Fighting Procedures

Self-contained breathing apparatus (SCBA) and full protective equipment recommended.

Unusual Fire and Explosion Hazards This product will not burn.

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#### General Hazard

This inorganic pigment will not burn, and has a low level of fire hazard.

#### **FLAMMABILITY DATA**

Flash Point:	Non-flammable material		
Flammability Limits:	Not applicable		
Auto-ignition Temperature:	Not applicable		
Dust Cloud Ignition Temperature:	Not applicable		
Dust Layer Ignition Temperature:	Not applicable		
NFPA	RATINGS	HMIS	RATINGS
Health:	1	Health:	1
Flammability:	0	Flammability:	0
Reactivity:	0	Reactivity:	0

#### **ACCIDENTAL RELEASE MEASURES**

##### SPILLS

For dry powder spills, inert materials such as sand may be added to control dusting prior to cleanup. Contain spilled material immediately with an inert substance such as sand or earth. Use plastic or aluminum shovel to transfer diluted waste material into appropriate containers for disposal.

#### **HANDLING AND STORAGE**

##### Handling

Avoid employee exposure through the use of appropriate engineering controls and good industrial hygiene practices.

##### Storage

Store in a moderately cool, dry, well-ventilated area away from direct sources of heat. Empty containers may contain product residues and should be handled appropriately. Label properly.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

This product is a stable compound and hazardous polymerization will not occur.

INCOMPATIBILITY: NONE KNOWN UNDER CONDITIONS OF NORMAL USE.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN.

##### Engineering Controls

The use of proper and efficient exhaust ventilation is recommended.

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#### Personal Protection

NIOSH approved dust respirators are recommended when handling in areas of pigment dusting. Safety glasses are also recommended. Impervious clothing should be worn when gross contact is likely, such as when cleaning up spills of large amounts.

Exposure Limits: There are no ACGIH TLV's or OSHA PEL's established for this product.

The OSHA PEL for nuisance dust is 15 mg/m<sup>3</sup> (total dust), and 5 mg/m<sup>3</sup> (respirable dust) recommended. The recommended ACGIH TLV for nuisance dust is 10 mg/m<sup>3</sup>.

#### **TOXICOLOGICAL INFORMATION**

Based upon industry-wide experience over many years of manufacturing and published toxicological studies, many inorganic pigments in general are considered to be practically non-toxic. This low order of toxicity is probably due to the fact that inorganic pigments are somewhat inert and insoluble substances.

ACUTE (SHORT-TERM) TOXICITY-No known published data available.

CHRONIC (LONG-TERM) TOXICITY-No known published data available.

MUTAGENICITY-No known published data available.

#### **ECOLOGICAL INFORMATION**

This product has not been evaluated for its Eco-toxicity. However, the biodegradation of inorganic colorants under aerobic conditions is expected to be poor and there is no evidence to suggest they create any significant ecological problems when released into the environment. Since inorganic pigments are mostly insoluble compounds, they are believed to have minimal bioaccumulation and bioavailability characteristics.

#### **DISPOSAL CONSIDERATIONS**

This product must be disposed of in accordance with all applicable federal, state and local regulations.

#### Waste Management

Incineration or landfilling are recommended disposal techniques. Contact the state or local environmental agency for specific rules. This product is not identified as a RCRA hazardous waste under 40 CFR 261, and is not regulated under CERCLA (Superfund).

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#### **TRANSPORT INFORMATION**

D.O.T. SHIPPING NAME (49 CFR 172.101-102):	Not regulated
D.O.T. HAZARD CLASS (49 CFR 172.101-102):	None
D.O.T. LABEL:	None
D.O.T. PLACARD:	None
BILL OF LADING DESCRIPTION:	Dry Pigments
CERCLA SUBSTANCE (49 CFR):	Not regulated
REPORTABLE QUANTITY (RQ):	None

#### **INTERNATIONAL**

UN/NA NUMBER	Not regulated
IMDG/IACO CLASSIFICATION	Not regulated
IATA CLASSIFICATION	Not regulated

#### **REGULATORY INFORMATION**

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