



SAFFIRE BLUE INC.

Division and Location

Division: Saffire Blue Inc.
Address: 1444 Bell Mill Road
Address: Tillsonburg, ON N4G4G9
Telephone: 519-286-0295
Country: CANADA

Section I - Product Identification:

Product Name: Titanium Dioxide
Chemical Name: Metal Oxide
Chemical Formula: TiO_2
CAS Number: 13463-67-7
HMIS Rating: Health 1
Flammability 0
Reactivity 0

Section II - Composition:

Titanium Dioxide: OSHA PEL: 15 mg/m^3 (total)
 5 mg/m^3 (Respirable)
ACGIH TLV: 10 mg/m^3 (Total-TWA)
 5 mg/m^3 (Respirable)

(Some Grades may be surface treated with

Aluminum Hydroxide CAS Number 21645-51-2 0 to 9%
Amorphous Silica CAS Number 112926-00-8 0 to 11%

Section III - Hazardous Identification:

Emergency Overview: No unusual fire or spill hazard. Low health risk by inhalation. White colorless powder
Potential health effects: Eyes - May Cause mechanical irritation

Skin - none

Inhalation - Low health risk by inhalation. Treat as a nuisance dust

Oral LD₅₀ Greater than 7,500 mg/kg (Rats)

Effects of
Overexposure

Acute - Exposure may irritate the throat and air passage, sometimes causing cough and phlegm

Chronic - Repeated heavy exposures may cause bronchitis, with cough and phlegm.

Chronic - If exposure continues, emphysema may develop. Lung scarring may also result.

Carcinogenicity

Titanium Dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). This classification is based upon animal inhalation studies. Epidemiology studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide.

Section IV - First Aid :

Eye Contact: Flush eye with plenty of water for at least 15 minutes. Consult a physician if irritation persists.

Skin Contact: Wash hands thoroughly with soap and water. Consult a physician if irritation persists.

Inhalation: Go to an area with fresh air. If breathing is labored or stopped, give artificial respiration. Get immediate medical attention.

Ingestion: If swallowed, dilute with large amounts of water, do not induce vomiting, consult a physician immediately.

Section V - Fire Fighting Measures

Flash Point: N/A

Flammable Limits: N/A

Auto-Ignition
temperature: N/A

Hazardous
Combustion
Products: N/A

Extinguishing
Media: Use Extinguishing agent applicable to surrounding fire

Fire Fighting
Instructions: Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate. Toxic fumes may be produced in fire.

Section VI - Accidental Release Measures

Small / Large Spill Clean up using dry procedures, avoid dusting

Personal Protective
Equipment Wear a MSHA/NIOSH approved (or equivalent) Air purifying respirator equipped with filters for protection against dusts and mists. Wear cotton or canvas clothes. Wear safety glasses (ANSI z87.1 or approved equivalent)

Section VII - Handling and Storage

Handling	Good industrial hygiene practice requires that employee exposure be maintained below TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.
Storage	Store in a clean, dry area at ambient temperature in original unopened containers. Conditions of high humidity may require storage in a controlled environment.

Section IIX - Exposure Control & Personal Protection

Engineering Controls:	Use with adequate ventilation to meet exposure limits listed in section II
Respiratory Protection:	NIOSH approved air-purifying respirator equipped with an appropriate 100 series filter for protection against dusts and mists, as appropriate for the exposure levels and conditions of use.
Skin Protection:	Cotton or Canvas Gloves
Occupational Exposure Limits:	ACGIH - TLV OSHA - PEL
Titanium Dioxide:	8 hr. TWA - 10 mg/cu.m. (Total) 8 hr. TWA - 15 mg/cu.m. (Total)
Nuisance Dust	8 hr. TWA - 3 mg/cu.m. (Respirable) 8 hr. TWA - 5 mg/cu.m. (Respirable)
Aluminum Hydroxide:	Not Established Not Established
Amorphous Silica:	Withdrawn 80 mg/cu.m./%SiO ₂
Particle Size Considerations	Fine Particles are respirable particles with a primary particle diameter of at least 100 nm. Ultrafine particles are respirable particles with a primary particle diameter less than 100 nm. This product is not manufactured to contain ultrafine particles as defined above, and the level of any incidental ultrafine particles is not measurable at this time. If, however the user reduces the particle size of this product (through milling or some other process) so that a significant portion is in the ultrafine range, the significance of the reduced particle size should be taken into consideration.
Acute Toxicity: Titanium Dioxide	
Oral LD ₅₀	Greater than 10,000 mg/kg (rat)
Dermal LD ₅₀	Greater than 10,000 mg/kg (rabbit)
Inhalation LC ₅₀ (4 hr)	Greater than 6.8 mg/l (rat)

**Section IX -
Ecological
information**

Harmful Effects No Harmful effects known other than those associated with suspended inert solids in water.

**Section X -
Disposal
Considerations**

Collect in containers, bags, or covered dumpster boxes. If reuse or recycling is not possible, material may be disposed of at a chemically secure landfill. Dispose of in accordance with local, state, and federal regulations. Use a licensed waste handler.

RCRA Hazardous
waste number

Not Federally Regulated.

**Section XI -
Transportation
Information**

U.S Dot: Not Regulated - Enter the proper freight classification on the shipping paperwork, "MSDS Number", and "Product Name" for shipping purposes.

IATA Not regulated for air shipments.

Canadian TDG
Hazard Class and
Pin Not regulated

Harmonized Tariff
Code 3206.11.00

**Section XII -
Regulatory
Information**

Korean Inventory Components are listed

Japanese Inventory Components are listed

TSCA Status: Components of this product are listed on the TSCA inventory

CERCLA reportable
Quantity N/A

Sara Title III Section 311/312 Hazardous Categories: None
Section 313 Toxic Chemicals: None

International
Regulations Canadian DSK - Components are listed

Canadian WHMIS - This Material is not a controlled substance under WHIMIS
European Community - Listed on ECOIN, the European Core Inventory
Australian Inventory - Components are listed

**Section XI -
Preparation
Information:**

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Country: CANADA

**Section XII -
Revision Date:**

Date: February, 01 2009
By: Saffire Blue Inc.

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