

SECTION I: PRODUCT INFORMATION

Product Name: Titanium Dioxide
 Chemical Family: Inorganic pigment
 Product Uses: Pigment
 Revision Date: August 26, 2013

SECTION II: COMPOSITION

Component	CAS #	%	LD ₅₀ (gm/kg) Oral	LD ₅₀ (gm/kg) Skin	LC ₅₀ ppm Inhalation
Titanium Dioxide	13463-67-7	>99	>24,000	>10,000	4 Hr > 6.82mg/L

SECTION III: PHYSICAL DATA

Odour & Appearance: Slight & white powder
 Odour Threshold: Not known
 Vapour Pressure: Not applicable
 Evaporation Rate (Butyl Acetate=1) : Not applicable
 Vapour Density (air = 1) : Not applicable
 Boiling Range: Not applicable
 Melting Point: 1650°C
 Density: 3.85 g/cm³ @ 20 °C
 Water Solubility: Not available
 Acid Solubility: Yes
 Viscosity: Not applicable
 pH: 6.5 – 8.0

SECTION IV: FIRE AND EXPLOSION

Flash Point: Not applicable
 Auto ignition Temperature: Not applicable
 Flammable Limits: Not applicable
 Combustion Products: Metal oxide/oxides
 Firefighting Precautions: As for materials sustaining fire; firefighters must wear SCBA
 Static Charge Accumulation: Not applicable

SECTION V: REACTIVITY DATA

Dangerously Reactive With: Not known

Also Reactive With:	None
Stability:	Stable; will not polymerize
Decomposes in Presence of:	Not known
Decomposition Products:	Not known
Sensitive to Mechanical Impact:	Not known

SECTION VI: HEALTH & ENVIRONMENTAL INFORMATION DATA

Summary: inhalation of product dust may damage lung, possible carcinogen	
Canada – WHMIS:	D2A, Materials Causing Other Toxic Effects-Very Toxic Material.
U.S. TSCA Inventory Status	All components of this product are listed on the TSCA Chemical Substances Inventory or are exempt.

Effects, Acute Exposure

Skin Contact:	May cause skin irritation. Avoid skin contact.
Skin Absorption:	Nil
Eye Contact:	Dust may cause mechanical irritation to eyes. Avoid eye contact.
Inhalation:	Dust may irritate the respiratory tract. Normal precautions for organic dusts should be provided. Avoid inhalation.
Ingestion:	Do not ingest.

Effects, Chronic Exposure

General:	Repeated or prolonged exposure to the substance can produce target organs damage.
Toxic Effects on Animals:	Non-irritating
Toxic Effects on Humans:	No specific information is available in our database regarding the other toxic effects of this material for humans
Chronic Effects on Humans:	No specific information is available in our database regarding the other chronic toxic effects of this material for humans
Carcinogenicity:	IARC - Group 2B (possible carcinogenic to humans)
Teratogenicity:	No evidence of teratogen effects
Mutagenicity:	No evidence of mutagenic effects
Reproductive Effects:	No evidence of reproductive effects
LD50 (oral):	Above 24,000
LD50 (skin):	Above 10,000

LC50 (inhalation): 4 hr > 6.82 mg/L

Environmental Information

Ecotoxicity: 96 hr LC50 (fish-sheephead minnow) >10,000 mg/L; 96 hr LC50 (fish- rainbow trout) >100 mg/L; 47 hr LC50 (daphnia magna) >100 mg/L

Products of Degradation: No specific information is available in our database regarding the degradation of this product

Biodegradability: Our database contains no additional remark on the biodegradation of this product

SECTION VII: SPILLS, LEAKS, & DISPOSAL PROCEDURES

Leak Precaution: Not required – solid material

Handling Spill: Shovel carefully (do not create dust) or vacuum spilled material; sprinkle residue with dust-suppressing sweeping compound, sweep, shovel and store in closed containers for disposal

Waste Disposal: Do not flush to sewer, this product is not a hazardous waste; may be dumped in sanitary landfill unless local regulations forbid this

SECTION VIII: PROTECTION EQUIPMENT

Ventilation: Mechanical ventilation may be required to maintain airborne dust below TWAEV; depending on handling procedures

Hands: Use chemical resistant, impervious gloves.

Eyes: Safety glasses with side shields – *always protect the eyes*

Clothing: Protective clothing should be selected based on the task being performed and the risks involved.

Respirator: A NIOSH/OSHA approved dust respirator should be worn. Consult your supplier of personal protective equipment for additional instructions on proper usage for nuisance dust.

SECTION IX: FIRST AID

SKIN:	Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES:	Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.
INHALATION:	Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION:	Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.

SECTION X: HANDLING & STORAGE REQUIREMENTS

- Avoid breathing product dust.
- Ventilation should be installed to clear any dust formed at source.
- Avoid unnecessary contact with skin and wash work clothes frequently.
- An eye bath should be available near the workplace.
- Avoid moisture.
- No other special storage requirements.

SECTION XI: SHIPPING INFORMATION

Canada: Not regulated under TDG (Canada).

SECTION XII: OTHER

The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all federal, provincial or local regulations. It is the buyer's/user's responsibility to determine the safety, toxicity, and suitability for their own use of the product described herein. Conditions of use are beyond Colors of Nature's control and therefore users are responsible to verify this data under their own operating conditions to determine



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