

# Material Safety Data Sheet

## Section 1. Product and Company Identification

<b>Product Name</b>	<b>Emerald Cosmetic Pigment</b>		
<b>Supplier</b>	TKB Trading, LLC 1101 9th Avenue Oakland, CA 94606 510-451-9011	<b>Effective Date</b>	5/20/2003
		<b>Print Date</b>	5/20/2003

<b>Material Uses</b>	Cosmetic Pigments
<b>Chemical Family</b>	Inorganic pigment.

## Section 2. Composition and Information on Ingredients

<b>Component</b>	<b>CAS #</b>	<b>% by Weight</b>
TITANIUM DIOXIDE	13463-67-7	33-37
Iron Oxide Black	1317-61-9	28-32
MICA (mineral)	12001-26-2	23-34
CHROMIUM OXIDE	1308-38-9	5-8

## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Solid. (Dark green, lustrous, odorless powder)
<b>Emergency Overview</b>	MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
<b>Routes of Entry</b>	Eye contact. Inhalation. Ingestion (not anticipated).
<b>Potential Acute Health Effects</b>	<p><b>Eyes</b> May cause eye irritation. Symptoms include: itching and redness after contact.</p> <p><b>Skin</b> May cause mild skin irritation. Symptoms include: itching and redness after contact.</p> <p><b>Inhalation</b> May cause respiratory tract irritation. Symptoms include: coughing, wheezing or shortness of breath when inhaled.</p> <p><b>Ingestion</b> Not an intended route of exposure. May be hazardous in case of ingestion. Symptoms include: gastrointestinal tract upset and diarrhea.</p>
<b>Potential Chronic Health Effects</b>	Additional information See Toxicological Information (section 11)
<b>Medical Conditions Aggravated by Overexposure:</b>	Repeated or prolonged inhalation of any dust particulate may aggravate respiratory medical conditions.

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**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If symptoms persist, seek medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reusing. Thoroughly clean shoes before reuse. If symptoms develop, seek medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, seek medical attention.
<b>Ingestion</b>	Do not ingest. If this material is swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Section 5. Fire Fighting Measures**

<b>Flammability of the Product</b>	Non-flammable.
<b>Fire Fighting Media and Instructions</b>	In case of fire, use water spray (fog), foam, dry chemical, or CO2.
<b>Protective Clothing (Fire)</b>	Wear self-contained breathing apparatus and full protective clothing.

**Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements.
<b>Large Spill and Leak</b>	Use appropriate tools to put the spilled material into a labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements. Check TLV in Section 8 of MSDS and with local authorities.
<b>Spill Kit Information</b>	No specific spill kit required for this product.

**Section 7. Handling and Storage**

<b>Handling</b>	Avoid generating dust. Avoid breathing dust. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.
<b>Storage</b>	Keep container dry. Keep containers sealed until ready for use.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	
<b>Eyes</b>	Safety glasses.
<b>Body</b>	Lab coat.
<b>Respiratory</b>	Dust mask. Use additional appropriate respiratory protection if there is the potential to exceed the exposure limit(s).
<b>Hands</b>	Recommended: Gloves.
<b>Feet</b>	Not applicable.

**Protective Clothing  
(Pictograms)**



**Personal Protection in Case of a Large Spill** Splash goggles. Synthetic apron. Gloves. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Product Name	Exposure Limits
TITANIUM DIOXIDE	<p><b>ACGIH (United States, 1996).</b> TWA: 10 mg/m<sup>3</sup> 8 hour(s).</p> <p><b>OSHA Final Rule (United States, 1989).</b> TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total dust</p>
Iron Oxide Black MICA (mineral)	<p>Not available.</p> <p><b>ACGIH (United States, 1994).</b> TWA: 3 mg/m<sup>3</sup></p> <p><b>OSHA (United States, 1989). Notes: Respirable</b> TWA: 3 mg/m<sup>3</sup></p> <p><b>ACGIH (United States, 1994).</b> TWA: 3 mg/m<sup>3</sup> 8 hour(s).</p> <p><b>NIOSH REL (United States, 1994).</b> TWA: 3 mg/m<sup>3</sup> 10 hour(s). Form: Respirable fraction</p> <p><b>OSHA Final Rule (United States, 1989).</b> TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust</p>
CHROMIUM OXIDE	<p><b>ACGIH (United States, 1994).</b> TWA: 0.5 mg/m<sup>3</sup> 8 hour(s). Form: Inorganic</p> <p><b>OSHA Final Rule (United States, 1989).</b> TWA: 1 mg/m<sup>3</sup> 8 hour(s).</p>

**Section 9. Physical and Chemical Properties**

<b>Odor</b>	Odorless.
<b>Color</b>	Dark Green.
<b>Physical State and Appearance</b>	Solid. (Dark green, lustrous, odorless powder)
<b>Molecular Weight</b>	Mixture.
<b>Molecular Formula</b>	Not applicable.
<b>pH</b>	3 to 6 (Conc. (% w/w): 10)
<b>Melting/Freezing Point</b>	Not available.
<b>Specific Gravity</b>	Not applicable.
<b>Density</b>	Bulk density 5.5 to 6.5 g/in <sup>3</sup>
<b>Solubility</b>	Insoluble in water.

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Hazardous Decomposition Products</b>	Not applicable.
<b>Hazardous Polymerization</b>	Will not occur.

**Section 11. Toxicological Information**

<b>RTECS Number:</b>	Titanium Dioxide Iron Oxide, Black Mica (mineral) Chromium(III) Oxide	XR2275000 Not available. VV8760000 GB6475000
<b>Toxicity</b>	Not available.	

**Chronic Effects on Humans** **CARCINOGENIC EFFECTS:** Classified None. by NIOSH [TITANIUM DIOXIDE]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [TITANIUM DIOXIDE]. Classified None. by NIOSH [CHROMIUM OXIDE]. Classified A4 (Not classifiable for human or animal.) by ACGIH [CHROMIUM OXIDE].  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.  
**DEVELOPMENTAL TOXICITY:** Not available.  
 Repeated or prolonged exposure to the substance at concentrations above exposure limits may cause respiratory damage.  
 Target Organs: eyes, lungs, skin.

**Acute Effects on Humans** May cause skin, eye and respiratory irritation.

**Sensitization** Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause respiratory tract and lung sensitization.

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

**Section 12. Ecological Information**

**Toxicity of the Products of Biodegradation** The product itself and its products of degradation are not toxic.

**Section 13. Disposal Considerations**

<b>EPA Waste Number</b>	Non-hazardous waste	
<b>Treatment</b>	Dispose of according to all federal, state and local regulations.	

**Section 14. Transport Information**

<b>DOT Classification</b>	Not regulated.
<b>TDG Classification</b>	Not regulated.
<b>IMO/IMDG Classification</b>	Not regulated.
<b>ICAO/IATA Classification</b>	Not regulated.

**Section 15. Regulatory Information**

**U.S. Federal Regulations** TSCA 8(b) inventory: TITANIUM DIOXIDE; Iron Oxide Black; MICA (mineral); CHROMIUM OXIDE  
 SARA 302/304/311/312 extremely hazardous substances: No products were found.  
 SARA 302/304 emergency planning and notification: No products were found.  
 SARA 302/304/311/312 hazardous chemicals: TITANIUM DIOXIDE; MICA (mineral); CHROMIUM OXIDE  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: TITANIUM DIOXIDE: Immediate (Acute) Health Hazard; MICA (mineral): Immediate (Acute) Health Hazard; CHROMIUM OXIDE : Delayed (Chronic) Health Hazard  
 SARA 313 toxic chemical notification and release reporting: CHROMIUM OXIDE 6.5%  
 Clean Water Act (CWA) 307: CHROMIUM OXIDE  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112 accidental release prevention: No products were found.  
 Clean air act (CAA) 112 regulated flammable substances: No products were found.  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)** Not controlled under WHMIS (Canada).

CEPA DSL: TITANIUM DIOXIDE; Iron Oxide Black; MICA (mineral); CHROMIUM OXIDE

**International Regulations**

<b>EINECS</b>	TITANIUM DIOXIDE	236-675-5
	Iron Oxide Black	215-277-5
	MICA (mineral)	3101276
	CHROMIUM OXIDE	215-160-9

**DSCL (EEC)** S22- Do not breathe dust.

**International Lists** Australia (NICNAS): TITANIUM DIOXIDE; IRON OXIDE BLACK; MICA; CHROMIUM OXIDE  
 Japan (MITI): TITANIUM DIOXIDE; IRON OXIDE BLACK; MICA; CHROMIUM OXIDE  
 Korea (TCCL): TITANIUM DIOXIDE; IRON OXIDE BLACK; MICA; CHROMIUM OXIDE  
 Philippines (RA6969): TITANIUM DIOXIDE; IRON OXIDE BLACK; MICA; CHROMIUM OXIDE

**State Regulations**

Pennsylvania RTK: TITANIUM DIOXIDE: (generic environmental hazard); CHROMIUM OXIDE : (environmental hazard, generic environmental hazard)  
 Massachusetts RTK: TITANIUM DIOXIDE; MICA (mineral); CHROMIUM OXIDE  
 New Jersey: TITANIUM DIOXIDE; MICA (mineral); CHROMIUM OXIDE

**Section 16. Other Information**

**Hazardous Material  
Information System  
(U.S.A.)**

Health	*	1
Fire Hazard		0
Reactivity		0
Personal Protection		E

**National Fire  
Protection  
Association (U.S.A.)**

**Other Special Considerations** Not available.

**Changed Since Last Revision** 

**Notice to Reader**

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