

**SECTION I: PRODUCT INFORMATION**

Product Name: Chromium Green  
 Chemical Family: Inorganic pigment  
 Product Uses: Pigment  
 Revision Date: August 8, 2012

**SECTION II: COMPOSITION**

Component	CAS #	%	LD <sub>50</sub> (gm/kg) Oral	LD <sub>50</sub> (gm/kg) Skin	LC <sub>50</sub> ppm Inhalation
Chromium III Oxide (Cr <sub>2</sub> O <sub>3</sub> )	1308-38-9	98	not known	not known	not known
Non-Hazardous	Not Available	2	not known	not known	not known

**SECTION III: PHYSICAL DATA**

Odour & Appearance: Odourless green powder  
 Odour Threshold: Not known  
 Vapour Pressure: None – will not vaporize  
 Evaporation Rate (Butyl Acetate=1) : None – not volatile  
 Vapour Density (air = 1) : Not known  
 Boiling Range: 4000 °C  
 Melting Point: 2266 °C  
 Density: 5.1  
 Water Solubility: Nil  
 Viscosity: Not applicable – solid substance  
 pH: 8.0

**SECTION IV: FIRE AND EXPLOSION**

Flash Point: Cannot burn  
 Auto ignition Temperature: Cannot burn  
 Flammable Limits: Cannot burn  
 Combustion Products: None  
 Firefighting Precautions: As for materials sustaining fire; firefighters must wear SCBA  
 Extinguishing Media: dry chemical, foam, CO<sub>2</sub>; a water mist, fog or spray can be used to control dusting and cool the material.  
 Static Charge Accumulation: Cannot burn, not applicable

**SECTION V: REACTIVITY DATA**

Dangerously Reactive With:	Strong oxidizers, such as chlorates, bromates and nitrates
Also Reactive With:	Contains chromium oxide green, which can react with lithium, nitroalkanes, dirubidium acetylide, oxygen difluoride and other strong oxidizers; reaction with chlorine trifluoride produces a flame
Stability:	Stable; will not polymerize
Decomposes in Presence of:	Heat
Decomposition Products:	Not known
Sensitive to Mechanical Impact:	No
Other:	Contact between glycerol and chromium (III) oxide may produce an explosion; fire conditions may produce small amounts of hexavalent chromium and other oxidation products

**SECTION VI: HEALTH & ENVIRONMENTAL INFORMATION DATA**

Summary: inhalation of product dust may damage lung, possible carcinogen

Canada – WHMIS:	D2A
U.S.A. – HMIS:	Health – 1, Fire – 0, Reactivity – 0

**Effects, Acute Exposure**

Skin Contact:	May cause skin irritation and an allergic reaction in certain individuals
Skin Absorption:	Poor absorbed into the body
Eye Contact :	Dust may be a mechanical irritant
Inhalation:	Dust may be a mechanical irritant, causing coughing and/or sneezing
Ingestion:	Not known; probably no effect – not a route of industrial exposure

**Effects, Chronic Exposure**

General:	A review of studies conducted over 100 years showed no conclusive evidence for cancer among workers exposed to aerosols formed by chromium metal or chromium (III) compounds; the International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence in humans or experimental animal for the carcinogenicity of
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Sensitizing:	chromium (III) compounds; the overall evaluation concluded that chromium (III) compounds are not classified as to their carcinogenicity to humans. Repeated or prolonged skin contact to chromium (III) oxide may cause dermatitis and possible destruction and / or ulceration.
Carcinogen/Tumorigen:	Components are are not known to be tumorigens or carcinogens in humans or animals.
Reproductive Effect:	No known effect in humans or animals
Mutagen:	No known effect on humans or animals
Synergistic With:	Not known
LD50 (oral):	Not known
LD50 (skin):	Not known
LC50 (inhalation):	Not known

**Environmental Information**

Bioaccumulation:	This product cannot bioaccumulate
Biodegradation:	This product is relatively inert and will not biodegrade
Abiotic Degradation:	This product is relatively inert and will not undergo abiotic degradation
Mobility in soil & water:	This product is water insoluble and will not move in soil and water
Marine Toxicity:	No data

**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**

Exposure Values:	Component	ACGIH TLV	OSHA PEL	NIOSH
	Chromium (III)	0.5mg/m <sup>3</sup>	0.5mg/m <sup>3</sup>	0.5mg/m <sup>3</sup>

- Ventilation: Mechanical ventilation may be required to maintain airborne dust below TWAEV; depending on handling procedures
- Hands: Cloth, leather, rubber or plastic gloves are suggested
- Eyes: Safety glasses with side shields – *always protect the eyes*
- Clothing: Uniforms, coveralls, or a lab coat should be worn
- Respirator: NIOSH approved dust mask

**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 TDG:**

**PIN UN-not regulated for transport**

**U.S.A. 49 CFR:**

**PIN UN- not regulated for transport**

**Marine Pollutant:**

**Not a marine pollutant**

## **SECTION XII: OTHER**

*This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.*

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 whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.