

# MATERIAL SAFETY DATA SHEET

Elementis Pigments Inc.  
11 Executive Dr., Suite 1  
Fairview Heights, IL 62208

Product: CHROMIUM OXIDE  
MSDS No. PIGMENT / EPI-011  
Revision: Original  
Date: January 1998

## HAZARD MATERIAL IDENTIFICATION SYSTEM

Health Hazard  
Flammability Hazard  
Reactivity Hazard  
Personal Protection

1 - Slight  
0 - Minimal  
0 - Minimal  
E - Glasses, Gloves, Dust Resp

### SECTION I.

### MATERIAL IDENTIFICATION

Trade/Material Name: CHROMIUM OXIDE

Description: Green Chromium (III) Oxide powder. C.I. Pigment Green 17, C.I. Number 7288

Other Designations: G-4099, G-4099HP, G-5099, G-5099HP, G-6099, G-6099HP, G-7099, G-7099HP, G-8599

CAS: 1308-38-9

Chemical Name: Cr<sub>2</sub>O<sub>3</sub>

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### SECTION II.

### INGREDIENTS AND HAZARDS

<u>INGREDIENT NAME:</u>	<u>CAS NUMBER:</u>	<u>PERCENT</u>	<u>EXPOSURE LIMIT</u>
Chromium (III) Oxide Green	1308-38-9	>98%	ACGIH TLV: 0.5 mg/M <sup>3</sup> TWA (Chromium III compounds as Cr)
			OSHA PEL: 0.5 mg/M <sup>3</sup> TWA (as Cr)

(Ingredients and Hazards continued on next page)

CALIFORNIA - PROPOSITION 65

This material may contain approximately 100 ppm hexavalent chromium. Hexavalent chromium is on the California Governor's list of "chemicals known to cause cancer or reproductive toxicity." The California Health and Welfare Agency has established a "no significant risk" level for hexavalent chromium of 0.001 micrograms/day. Workplace exposures to this product below the TLV for chromic oxide could result in exposures to hexavalent chromium in excess of 0.001 microgram/day. Appropriate warnings should be given.

SARA TITLE III: Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Chromium compound - 99+% CAS# 1308-38-9

This information must be included in all MSDSs that are copied and distributed for this material.

**SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS**

Appearance and Odor: Green Powder, No Odor

Solubility in Water (%): Insoluble

Specific Gravity (H<sub>2</sub>O=1): 5.2

**SECTION IV. FIRE AND EXPLOSION DATA**

Flash Point (method): Not flammable

Extinguishing Media: Not flammable. Use appropriate extinguishing media for the combustible material involved in the fire.

Unusual Fire or Explosion Hazards: None

Special Firefighting Procedures: Firefighters should use self-contained breathing apparatus.

**SECTION V. REACTIVITY DATA**

Material is stable - Hazardous polymerization will not occur

Chemical incompatibilities: Can react with molten alkali at very high temperature under oxidizing conditions. May react with chlorine trifluoride, lithium, nitroalkanes, diisobutylidene acetylide, oxygen difluoride and other strong oxidizers.

Conditions to avoid: None

Hazardous Decomposition Products: A small amount (less than 0.1% as Cr) of reversion to hexavalent chromium may occur if this product is exposed to elevated temperatures.

**SECTION VI.****HEALTH HAZARD DATA**Summary of Health Risks and Symptoms of Exposure:

May cause skin and eye irritation. Repeated and prolonged exposures to trivalent chromium compounds may cause delayed effects involving the respiratory system.

Principal Routes of Entry:

Inhalation, ingestion, skin and eye contact.

Acute Effects:

Causes skin irritation. May cause eye irritation.

Chronic Health Effects(s):

Contains trivalent chromium compound. As noted by the American Conference of Governmental Industrial Hygienists in their publication "Documentation of the Threshold Limit Values" repeated and prolonged exposures to trivalent chromium compounds may cause delayed effects involving the respiratory system.

Emergency and First Aid Procedures:

- Eye Contact:** Flush eyes with generous amounts of water for at least 15 minutes. Call a physician.
- Skin Contact:** Wash with mild soap and water. Remove contaminated clothing. If irritation develops, consult a physician.
- Inhalation:** Remove to fresh air. Call a physician.
- Ingestion:** If conscious, give large quantities of water to induce vomiting. Get medical attention.

Acute Oral LD<sub>50</sub> in rats greater than 5000 MG/KG

**SECTION VII.****PRECAUTIONS FOR SAFE HANDLING, USE OR DISPOSAL**Spill / Leak procedures:

Vacuum or use wet clean-up techniques and place waste material in closed container.

Waste management / disposal:

Disposal must be made in accordance with Federal, State and local regulations. Pursuant to 40 CFR part 261 of the Resource Conservation & Recovery Act (RCRA). Regulations currently in effect, discarded Chromium (III) Oxide would not be classified as a hazardous waste.

Precautions to be taken in handling and storing:

For transportation emergencies, call CHEMTREC, 24 hour information service, (800) 424-9300.

Chromium (III) Oxide is reportable under RCRA Title III, Section 311, 312 and 313.

Chromium (III) Oxide is not listed in Appendix A and B, 40 CFR 355, as an Extremely Hazardous Substance.

- xx Immediate (acute) health hazard
- xx Delayed (chronic) health hazard
- Fire Hazard
- Sudden release of pressure hazard
- Reactive hazard

Personal protective equipment:

- Goggles: Wear safety glasses or goggles to protect against dust particles.
- Gloves: Rubber or Neoprene gloves recommended to avoid direct skin contact.
- Respirator: Use of NIOSH approved dust respirator is recommended when exposure limits may be exceeded.

Workplace Considerations:

- Ventilation: Local exhaust ventilation to collector or containment recommended to control dust to below exposure limits.
- Safety Stations: An eye wash station should be available to the area of use.
- Other: In accordance with good industrial hygiene practice, avoid contact with skin, eyes or clothing. Avoid breathing dust. Keep away from food products. Keep container closed when not in use. Use with adequate, localized ventilation. Wash thoroughly after handling and before eating, drinking or using tobacco products. Contaminated clothing should be laundered carefully to avoid secondary exposures to product.

DOT Class: Not regulated

Prepared/revised by: R. E. Rader

January 1998

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