



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
97-300-51, 97-300-59

Product Name: Photographic Mirrors/ Adult Occlusal

Release Date: February 23, 2007

1. Product and Company Identification

Trade Name & Synonyms Photographic mirrors	MSDS Code Number Refer to part number
Chemical Name Chromium	Manufacture / Distributor GAC International Inc.
C.A.S. Number 7440-47-3	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) Chromium used in the manufacturing of photographic premium mirrors.	Emergency Telephone Number 1-631-419-1700

2. Composition of Ingredients

Hazardous Components	EINECS#	C.A.S. Number	Exposure Limits	%
Chromium	231-157-5	NA	7440-47-3	>=99
Hazard symbol XN Risk phrases 40		NA	NA	NA

3. Hazard Identification

Emergency Overview

Chromium has low oral toxicity. May cause skin and digestive tract irritation when in powder form. Photographic mirrors, although used for short periods of time, should be labels with a warning for chromium sensitive patients.

Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Causes eye irritation. May cause conjunctivitis.	NA	NA	NA	NA
Skin	Causes skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.	NA	NA	NA	NA
Inhalation	Causes respiratory tract infection.	NA	NA	NA	NA
Ingestion	May cause irritation of the digestive tract. May cause liver damage.	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA

Medical Conditions Aggravated by Exposure

NA

Carcinogenicity (IARC, NTP)

ACGIH: A4- Not classified as a human carcinogen. IARC: Group 3 carcinogen.

Potential Environmental Effects

NA



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4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.	Get medical aid immediately.	NA
Skin	Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.	Get medical aid if irritation develops or persists. Wash clothing before reuse.	NA
Inhalation	Remove from exposure to fresh air immediately.	NA	NA
Ingestion	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person.	Get medical aid immediately.	NA
Other	NA	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring) NA			

5. Fire and Explosion Data

Flashpoint & Method: °C / °F NA	Flammable (Explosive) Limits in Air LEL: NA UEL: NA	Autoignition Temperature NA	Other NA
Flame Propagation or Burning NA	Properties Contributing to Fire Intensity NA	Flammability Classification Health- , Flammability- , Reactivity- NA	
Extinguishing Media Use dry earth or sand to smother fire. Use dry chemical to fight fire. Non-combustible except in powder form.		Extinguishing Media to Avoid Water can be used to cool containers only.	
Protection and Procedures for Firefighters Self contained breathing apparatus in pressure demand, NIOSH, and full protective gear.			
Unusual Fire and Explosion Hazards This material in sufficient quantity is capable of creating a dust explosion. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment For spills-wear full protective equipment, cover spill with dry sand or vermiculite. Mix well and carefully transfer to a container.
Evacuation Procedures NA
Special Instructions Personal precautions: Proper clothing gloves and goggles. Environmental precautions: Not known, not applicable for mirrors.
Reporting Requirements NA



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7. Handling and Storage

Handling Practices and Warnings

Wash thoroughly after handling. Remove contaminated clothing and wash before reused. Use with adequate ventilation. Minimize dust generation and accumulation.

Storage Practices and Warnings

(°C / °F). Keep away from heat, sparks and flame. Store in tightly closed container and keep away from contact with oxidizing materials and acids. Storage conditions: Store in cool, dry, ventilated away from incompatible substances. Do not expose to air and store under an inert atmosphere. Materials to avoid potassium chlorate, SO*2, HG, LI.

8. Exposure Control/Personal Protection

Ventilation NA		Other Engineering Controls NA
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	Wear appropriate protective eyeglasses or chemical safety glasses.	NA
Skin	Wear appropriate gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.	NA
Inhalation	Follow the OSHA respirator regulations found in 29 CFR 1910.133.	NA
General Hygiene Considerations and Work Practices NA		
Protective Measures During Repair and Maintenance of Contaminated Equipment NA		
Other Protective Measures and Equipment NA		

9. Physical and Chemical Characteristics

Appearance Form: Solid. Color: Silver grey.		Odor Odorless
Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Solid <input type="checkbox"/> ____ (Other)		Boiling Point °C / 4784 °F Melting Point °C / 3375 °F Freezing Point °C / °F NA
Specific Gravity or Density (H₂O=1) NA	Solubility in Water Insoluble.	pH N/A
Vapor Pressure (mm Hg @ 20°C) N/A	Vapor Density (AIR= 1) NA	Evaporation Rate (Butyl Acetate = 1) NA
Other Density (20°C): N/A. Viscosity (20°C) : N/A		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) Ammonium nitrate, hydrogen peroxide, lithium, nitric oxide, potassium chlorate, sulfur dioxide, strong oxidizers, hydrochloric acid, sulfuric acid, nitrogen oxide.	
Hazardous Products Produced During Decomposition Toxic chromium oxide fumes. Hazardous polymerization has not been reported.	
Hazardous Polymerization? <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	Conditions to Avoid °C / °F NA
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid °C / °F Incompatible materials, ignition sources, dust generation, exposure to air, acids, strong oxidants.



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11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data

NA

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

N/P

13. Disposal Considerations

Regulations

Product: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Use EPA guidelines for the classification determination as listed in 40 CFR Parts 261.3. Additionally, waste generators must consult stated and local hazardous waste regulations to ensure complete and accurate classification.

Properties (Physical/Chemical) Affecting Disposal

NA

14. Transport Information

Regulated for shipping?

Yes No NA

Proper Shipping Name

Photographic mirrors

Packing Group

NA

Do changes in quantity, packaging, or shipment method change product classification?

Yes No NA

Hazard Class

NA

Identification Number

NA

Other

NA

15. Regulatory Information

Federal Regulations

Not on the health and safety reporting list, not under a chemical test rule, section 12b, not listed under TSCA, section 23b and none of the chemicals have a SNUR under TSCA. This material contains chromium (CAS # 7440-47-3), which is subject to the reporting requirements of section 313 of SARA title III and 40 CFR part 372. None of the chemicals in this product are considered to be highly hazardous by OSHA. CAS 7440-47-3 IS listed on the Canadian DSL list. Chromium has WHMIS classification of D2A, B2B and is on Canada's ingredient disclosure list.

International Regulations

NA

Other

NA

16. Other Information

Supplier Number: 16/97

Supplier Release: NA

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.