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MATERIAL SAFETY DATA SHEET DIRECTIVE 91/155/EEC

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

- 1.1 Chemical Nature, Sales Name, Use: Chromium used in the manufacturing of Photographic Premium Mirrors
- 1.2 Company Identification:
- G&H Wire Company
P.O. Box 248
Greenwood, Indiana 46142
Telephone: 317-346-6655
Facsimile: 317-346-6663
- 1.3 Emergency Contact: CEEMTREC assistance, call 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1
- | CAS# | Chemical Name | % | EINECS # |
|-----------|---------------|-------|-----------|
| 7440-47-3 | Chromium | .>=99 | 231-157-5 |
- Hazard Symbol: XN
Risk Phrases: 40

3. HAZARDS IDENTIFICATION

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 labeled with a warning for chromium sensitive patients.

- 3.1 Inhalation: Causes respiratory tract infection.
- 3.2 Skin Contact: 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.
- 3.3 Eye Contact: Causes eye irritation. May cause conjunctivitis.
- 3.4 Ingestion: May cause irritation of the digestive tract. May cause liver damage.

4. FIRST-AID MEASURES

- 4.1 Eyes: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately
- 4.2 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.

- 4.3 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.
- 4.4 Inhalation: Remove from exposure to fresh air immediately.

5. FIRE-FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media:
Use dry earth or sand to smother fire. Use dry chemical to fight fire. Non-combustible except in powder form.
- 5.2 Unsuitable Extinguishing Media:
Water can be used to cool containers only
- 5.3 Particular 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.
- 5.4 Protective Equipment for Fire-Fighters:
Self contained breathing apparatus in pressure demand, NIOSH, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions: Proper clothing, gloves and goggles.
- 6.2 Environmental Precautions: Not known, not applicable for the mirrors.
- 6.3 Cleaning Methods: For spills-wear full protective equipment, cover spill with dry sand or vermiculite. Mix well and carefully transfer to a container.

7. HANDLING AND STORAGE

- 7.1 Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reused. Use with adequate ventilation. Minimize dust generation and accumulation.
- 7.2 Storage: Keep away from heat, sparks and flame. Store in tightly closed container and keep away from contact with oxidizing materials and acids.
- 7.3 Storage Conditions: Store in cool, dry, ventilated area away from incompatible substances. Do not expose to air and store under an inert atmosphere. Materials to avoid- Potassium Chlorate, SO₂, HG, LI.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Eyes: Wear appropriate protective eyeglasses or chemical safety glasses.
- 8.2 Skin: Wear appropriate gloved to prevent skin exposure

8.3 Clothing: Wear appropriate protective clothing to prevent skin exposure

8.4 Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.133.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Form: Solid
Color: Silver Grey
Odor: Odorless

9.2 Change of State:
Melting Point/Range: 3375 deg F
Boiling Point: 4784 deg F

9.3 Flash Point:

9.4 Ignition Point:

9.5 Vapour Pressure (20°C): N/A

9.6 Density (20°C): N/A

9.7 Solubility in: Water (20°C): Insoluble
Organic Solvent (20°C):

9.8 PH-Value (at 10g/1H₂O): N/A

9.10 Viscosity (20°C): N/A

10. STABILITY AND REACTIVITY

10.1 Thermal Decomposition: Stable under normal temperatures and pressures.

10.2 Conditions to Avoid: Incompatible materials, ignition sources, dust generation, exposure to air, acids, strong oxidants.

10.3 Materials to Avoid: Ammonium Nitrate, hydrogen peroxide, lithium, nitric oxide, potassium chlorate, sulfur dioxide, strong oxidizers, hydrochloric acid, sulfuric acid, nitrogen oxide.

10.4 Hazardous Decomposition Products: Toxic chromium oxide fumes Hazardous polymerization has not been reported.

11. TOXICOLOGICAL INFORMATION

11.1 Carcinogenicity: ACGIH: A4-Not classified as a Human Carcinogen
IARC: Group 3 carcinogen

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

- 14.1 No information available

15. REGULATORY INFORMATION

- 15.1 Not on the Health and Safety Reporting List, not under a Chemical Test Rule, section 12b, not listed under TSCA, section 12b and none of the chemicals have a SNUR under TSCA.
- 15.2 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.
- 15.3 None of the chemicals in this product are considered to be highly hazardous by OSHA.
- 15.4 CAS 7440-47-3 is listed on the Canadian DSL List. Chromium has a WHMIS classification of D2A, B2B and is on Canada's Ingredient Disclosure List.

16. OTHER INFORMATION

- 16.1 The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. Therefore, it should not be construed as guaranteeing specific properties.
Dated 04-06-2010