

Product# 2004

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Gold (III) Oxide

Product Code: 2004

Company: Colonial Metals, Inc.
 Building 20
 505 Blue Ball Road
 Elkton, MD 21921 United States
 Company Contact: EHS Director
 Telephone Number: 410-398-7200
 FAX Number: 410-398-2918
 E-Mail : info@colonialmetals.com
 Web Site: www.colonialmetals.com



www.colonialmetals.com

Emergency Supplier Emergency Contacts & Phone Number

Response: Chemtrec: 800-424-9300
 World Wide - Call COLLECT to U.S: 703-527-3887

Section 2: Hazards Identification

GHS07

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Hazard Pictograms:



Signal Word: Warning

Hazard Category: Acute tox, oral Cat 5
 Skin corrosion/irritation Cat 3
 Serious eye damage/eye irritation Cat 3
 Aspiration hazard Cat 2

Hazard Statements: H303: May be harmful if swallowed
 H316: Causes mild skin irritation
 H320: Causes eye irritation
 H305: May be harmful if swallowed and enters airways

P264: Wash thoroughly after handling
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P308+313: IF exposed or concerned: Get medical advice/attention
 P402+404: Store in a dry place. Store in a closed container
 P501: Dispose of contents/container in accordance with local/national/international rules.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Gold (III) Oxide	Irritant	1303-58-8	98 - 100
Product Name: Gold (III) Oxide Chemical Family: Group 1B Metal Salt Chemical Formula: Au ₂ O ₃			

Section 4: First Aid Measures

General Info: Ensure proper ventilation.

Notable Exposure symptoms: Irritation to skin, eyes and areas of contact.

symptoms:

If ingested: Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial respiration if not breathing.

If swallowed, do not induce vomiting unless directed to do so by medical personnel.

If inhaled: Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible. Get medical attention immediately.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention immediately.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical advice if irritation develops or persists.

Additional Info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

Section 5: Fire Fighting Measures

General Info: Use proper safety equipment.

Extinguishing Use water spray, foam, dry chemical, carbon dioxide or medium for primary source.

Method / Equipment:

Hazardous Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear

Decomposition Info: self-contained breathing apparatus and full protective gear.

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Person protected with full face shield and NIOSH approved respirator and cartridge for chlorine vapor and dust. Ventilate area and wash spill site after pick up is completed.

Containment Clean up and place in a proper waste disposal container.

Equipment and

Procedures:

Cleanup Procedures: Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize vacuum cleaner, provided adequate ventilation is available.

Section 7: Handling and Storage

Safe Handling Do not handle until all safety precautions have been read and understood. Keep containers tightly

Precautions: closed Ensure adequate ventilation. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling.

Work/Hygienic Practices Use good personal hygiene after handling

Recommendations for Storage: Light sensitive, store in a tightly closed light-resistant container in a cool, well-ventilated area. Do not store above 25C

Other Precautions: 0.01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode. Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile acids.

Section 8: Exposure Control / Personal Protection

General / Ventilation: Local Exhaust: Required in handling area

Engineering Controls: Mechanical: Desirable to insure concentration of material below TLV/TWA levels

Other: Closed ventilation system (Laboratory Fume Hood)

Work Clothing: Protective work clothing which covers skin and prevents exposures. Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.

Eye/face protection: Wear safety glasses with side shields or goggles or face shield.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: NIOSH approved chemical cartridge respirator for acid gas/chlorine (42 CFR part 84) and self-

contained breathing apparatus with full face shield.

Section 9: Physical and Chemical Properties

State: Solid Powder **Melting Point:** N/A

Freezing Point: N/A

Color: Brown

Boiling Point/Range: N/A

pH N/A

Molecular Wt. 441.93

Odor: N/A

Water Solubility: Insoluble in cold water

Evaporation rate: N/A	Flash Point: N/A	Part. Coeff (n- N/A octanol/water
Upper Flam Limits: N/A	Lower Flam N/A Limits:	Vapor 7.57 g/mL @ 25C
VOC Content N/A (lbs/gal):	Viscosity: N/A	Density:
Specific Gravity: N/A		Autoignition N/A Temp:

Section 10: Stability and Reactivity

General: This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources. **Conditions To Avoid (Stability): Extreme heat. Incompatible materials**

Incompatible materials: Ammonia, aqua regia

Decomposition products: Hydrogen chloride gas.

Section 11: Toxicological Information

General Information: To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

Toxicological Information (product): Reproductive Effects
Toxicity
Rat
Subcutaneous
Paternal effects: Testes, epididymis, sperm duct

Likely Routes of Exposure: Eye Contact
Skin Contact
Inhalation
Ingestion - possible, but considered unlikely.

Carcinogenicity or mutagenicity: No data available

Sensitization: Material can be destructive to the tissue of the upper respiratory tract and mucous membranes. May be harmful if inhaled.

Section 12: Ecological Information

General information: No specific data available.

Section 13: Disposal Information

Product disposal: Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation

Container disposal: Treat empty containers with extra care. Consult waste contractor.

Other considerations: NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

Section 14: Transport Information

DOT: Considered non-hazardous for transport

IMO/IMDG: Inquire for further transport information.

IATA: Same as DOT. Always consult IATA manual before shipping

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

TSCA: All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Section 313 Notification: This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372. TSCA 8(b) inventory: Gold (III) Oxide

Canadian Regulatory Information: Not controlled under WHMIS

European Union (EU) Regulatory Information: This product is on the European Inventory of Existing Commercial Substances

Section 16: Other Information

NFPA Rating

Health: 1
Fire: 0
Reactivity: 0

HMIS Rating

Health: 1
Fire: 0
Reactivity: 0
Personal
Protection: E

Disclaimer: *In compliance with the OSHA Hazard communication Standard, 2.9 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.*

It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.

Colonial Metals, Inc. makes no presentation as to the accuracy of the information in the MSDS. The information is believe to be correct; however, you (the customer), should preform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.

Colonial Metals, Inc.

SDS Author: John Kerchner

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