



### SECTION 1: Product Identification

Chemical Name: Gold (III) oxide, 99%

Product Number: 602

CAS Registry Number: 1303-58-8

Formula: Au<sub>2</sub>O<sub>3</sub>

EINECS Number: 215-122-1

Chemical Family: metal oxide

Synonym: Auric oxide

### SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	1303-58-8	100	no data	no data

### SECTION 3: Hazards Identification

Emergency Overview: Irritating to skin, eyes and respiratory tract. May be harmful if swallowed.

Primary Routes of Exposure: Ingestion, inhalation

Eye Contact: Causes slight to mild irritation of the eyes

Skin Contact: Causes slight to mild irritation of the skin.

Inhalation: Do not breath dust. Irritating to the nose, mucous membranes and respiratory tract.

Ingestion: No information available on the effects of ingestion. May be harmful if swallowed.

Acute Health Effects: Irritating to skin, eyes and respiratory tract. May be harmful if swallowed.

Chronic Health Effects: No information available on health effects of prolonged or repeated exposure.

NTP: No

IARC: No

OSHA: No



#### SECTION 4: First Aid Measures

Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation:	Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion:	Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

#### SECTION 5: Fire Fighting Measures

Flash Point:	not applicable
Autoignition Temperature:	not applicable
Explosion Limits:	not applicable
Extinguishing Medium:	None. Material is non-flammable.
Special Fire Fighting Procedures:	No special fire fighting procedures required for this material.
Hazardous Combustion and Decomposition Products:	No hazardous combustion or decomposition products.
Unusual Fire or Explosion Hazards:	May support combustion of admixed combustibles at fire temperatures.

#### SECTION 6: Accidental Release Measures

Spill and Leak Procedures:	Small spills can be mixed with vermiculite or sodium carbonate and swept up.
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#### SECTION 7: Handling and Storage

Handling and Storage:	Store in a tightly sealed container in a cool area.
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#### SECTION 8: Exposure Controls and Personal Protection



Eye Protection:	Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection:	Wear appropriate chemical resistant gloves and protective clothing.
Ventilation:	Material may form or contain a fine dust that may become airborne during handling. If possible, handle the material in an efficient fume hood.
Respirator:	If handling material in the form of a fine dust and ventilation is not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Additional Protection:	No additional protection required
<b>SECTION 9: Physical and Chemical Properties</b>	
Color and Form:	orange to brown pwdr.
Molecular Weight:	441.93
Melting Point:	150°C dec.
Boiling Point:	no data
Vapor Pressure:	not applicable
Specific Gravity:	no data
Odor:	none
Solubility in Water:	insoluble
<b>SECTION 10: Stability and Reactivity</b>	
Stability:	air and moisture stable solid
Hazardous Polymerization:	no hazardous polymerization
Conditions to Avoid:	decomposes to gold and oxygen when heated.
Incompatibility:	active metals and strong reducing agents
Decomposition Products:	gold and oxygen
<b>SECTION 11: Toxicological Information</b>	
RTECS Data:	No information available in the RTECS files.



Carcinogenic Effects:	No data available
Mutagenic Effects:	No data available
Teratogenic Effects:	No data available
<b>SECTION 12: Ecological Information</b>	
Ecological Information:	No information available
<b>SECTION 13: Disposal Considerations</b>	
Disposal:	Dispose of according to local, state and federal regulations.
<b>SECTION 14: Transportation</b>	
Shipping Name (CFR):	Non-hazardous
Hazard Class (CFR):	NA
Additional Hazard Class (CFR):	NA
Packaging Group (CFR):	NA
UN ID Number (CFR):	NA
Shipping Name (IATA):	Non-hazardous
Hazard Class (IATA):	NA
Additional Hazard Class (IATA):	NA
Packaging Group (IATA):	NA
UN ID Number (IATA):	NA
<b>SECTION 15: Regulatory Information</b>	
TSCA:	Listed in the TSCA inventory.
SARA (Title 313):	Title compound not listed.



Second Ingredient: none

Third Ingredient: none