

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Gold chloride trihydrate

CAS number 16961-25-4

Synonyms Auric chloride; gold trichloride hydrochloride trihydrate; chloroauric acid

trihydrate.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin Sensitization

Category 1

Skin Sensitization

Category 1

Specific target organ toxicity (single exposure)

Category 3

Target Organs - Respiratory system.

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2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements Harmful if swallowed. Causes severe skin burns and eye damage. May

cause respiratory irritation. May cause an allergic skin reaction.

Precautionary statements

Prevention Wash face, hands and any exposed skin thoroughly after handling. Do

not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a

well-ventilated area.

Response Immediately call a POISON CENTER or doctor/phsycian.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower. Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rising.

Ingestion Rinse mouth. Do NOT induce vomiting.

Storage Store locked up. Store in a well-ventilated place. Keep container tightly

closed.

Disposal Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Sensitivty to light

SECTION 3: Composition/information on ingredients

3.1 Components

| Chemical name | Common name and synonyms | CAS number | Concentration |
|---------------------------|--|------------|---------------|
| Gold chloride, trihydrate | Auric chloride; chloroauric acid trihydrate. | 16961-25-4 | 99% |
| Tetrachloroauric acid | - | 16903-35-8 | - |

SECTION 4: First aid measures

4.1 Description of first-aid measures

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General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Call a physician or

poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical

device.

In case of skin contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Call a physician immediately.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required. Keep eye wide oepn while

rinsing.

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of

water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. May cause allergic skin reaction. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire. CO2, dry

chemical, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes. Hazardous combustion products: chlorine, hydrogen chloride gas.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal deomposition can lead to release of irritating gases and vapors.

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5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

Explosion limits

UpperNo information availableLowerNo information availableSensitivity to Mechanical ImpactNo information availableSensitivity to Static DischargeNo information available

NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 3 | 0 | 1 | N/A |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

6.2 Environmental precautions

Should not be released into the environment. Do not allow material to contaminate ground water system. See section 12 for additional ecological information.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. Protect from moisture. Corrosives area. Store under an inert atmosphere. Incompatible materials. Bases. Carbonates. Cyanides. Sulfides.

Incompatibilities

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Use only under a chemical fume hood. Ensure adequate ventilation, espicially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wear appropriate protective glvoes and clothing to prevent skin exposure.

Body Protection

Wear appropriate gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded of if irritation or other symptoms are experienced.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Yellow
Odor Odorless

Odor Threshold No information available PH No information available

Melting Point/Range 254 °C / 489.2 °F

Boiling Point/Range No information available
Evaporation Rate No information available
Flammability (solid) No information available

Flammability or explosive limit

Upper No data available Lower No data available

Vapor Pressure No information available Vapor Density No information available

Density 3.9

Solubility Soluble in water.

Partition coefficient; n-octanol/water No data available

Autoignition Temp
Decomposition Temp
Viscosity
No information available
No information available
No information available

Molecular Formula HAuCl4.3H2O

Molecular Weight 393.83

VOC Content(%) No information available
Oxidizing properties No information available

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Hygroscopic. Light senstive.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Avoid dust formation. Protect from light. Protect from moisture. Exposure to moist air or water.

10.5 Incompatible materials

Bases, carbonates, cyanides, sulfides.

10.6 Hazardous decomposition products

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

No information available.

Skin corrosion/irritation

Causes burns by all exposure routes.

Serious eye damage/eye irritation

Causes burns by all exposure routes.

Respiratory or skin sensitization

Causes burns by all exposure routes.

Germ cell mutagenicity

No information available.

Carcinogenicity

| Component | CAS | IARC | NTP | ACGIH | OSHA | Mexico |
|---------------------------|------------|------------|------------|------------|------------|------------|
| Gold chloride, trihydrate | 16961-25-4 | Not listed |

Specific target organ toxicity - single exposure

Respiratory system

Specific target organ toxicity - repeated exposure

None known

Reproductive toxicity

No information available

Chronic effects

No information available.

11.2 Additional Information

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Do not empty into drains.

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12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

The toxicological properties have not been fully investigated.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-No UN3260

Proper Shipping Name CORRSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Hazard Class 8
Packing Group III

IMDG

UN-No UN3260

Proper Shipping Name CORRSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Hazard Class 8
Packing Group III

IATA

UN-No UN3260

Proper Shipping Name CORRSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Hazard Class 8
Packing Group III

SECTION 15: Regulatory information

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US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See section 2 for more information.

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Not listed

US. New Jersey Worker and Community Right-to-Know Act

Not listed

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed

California Proposition 65

Not listed

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SECTION 16: Other information

Issue date: 08/05/2024

Revision: 0

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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