ISO9001:2000 Certified

Material Safety Data Sheet
Gold Chloride, trihydrate

Section 1 - Chemical Product and Company Identification

MSDS Name:
Gold Chloride, trihydrate
Catalog Numbers:
LC14893
Synonyms:
Hydrogen Tetrachloridegold, hydrate
Company Identification:
LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238
Company Phone Number:
(412) 826-5230
Emergency Phone Number:
(800) 424-9300
CHEMTREC Phone Number:
(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
16961-25-4	Gold Chloride, trihydrate	100

Section 3 - Hazards Identification

Emergency Overview

Appearance: *Yellow crystal*
Caution! *This is expected to be a low hazard for usual industrial handling.*
Target Organs: *None known.*

Potential Health Effects

Eye:
May cause slight eye irritation.
Skin:
May cause mild skin irritation.
Ingestion:
May cause mild digestive tract irritation.
Inhalation:
Low hazard for usual industrial handling.
Chronic:
May cause dermatitis and conjunctivitis.

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Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:
Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:
Do NOT induce vomiting. Get medical aid at once. Give oxygen if respiration is depressed.

Inhalation:
Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

Extinguishing Media:
For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:
No information found.

Flash Point:
No information found.

NFPA Rating:
CAS# 16961-25-4: Not published.

Explosion Limits:
Lower: Upper:

Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.

Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:
Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Provide local exhaust or general dilution ventilation.
Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Gold Chloride, trihydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs:

Personal Protective Equipment

Eyes:
Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.
Skin:
Wear appropriate protective gloves to prevent skin exposure.
Clothing:
Wear appropriate protective clothing to prevent skin exposure.
Respirators:
Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

Section 9 - Physical and Chemical Properties

Physical State: Crystal.
Color: Yellow.
Odor: Slight hydrogen chloride.
pH: Acidic in solution.
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: No information found.
Freezing/Melting Point: 489°F
Decomposition Temperature: 489°F
Solubility in water: Soluble.
Specific Gravity/Density: 3.9
Molecular Formula: $HauCl_4 \cdot 3H_2O$
Molecular Weight: 393.83

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Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Light, moisture, excess heat.
Incompatibilities with Other Materials:
None reported.
Hazardous Decomposition Products:
Hydrogen chloride.
Hazardous Polymerization:
Has not been reported

Section 11 - Toxicological Information

RTECS:
CAS# 16961-25-4: MD5428000.
LD50/LC50:
CAS# 16961-25-4:
No information found.
Carcinogenicity:
CAS# 16961-25-4: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
Epidemiology:
May cause irritation to eyes and skin.
Teratogenicity:
Reproductive:
Mutagenicity:
Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:

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Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 16961-25-4 is not on the TSCA Inventory, however, its anhydrous form is on the inventory and so this hydrate is exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

SARA Reportable Quantities (RQ):

None of the components are on this list.

CERCLA/SARA Section 313:

None of the components are on this list.

OSHA - Highly Hazardous:

None of the components are on this list.

US State

State Right to Know:

California Regulations:

European/International Regulations

Canadian DSL/NDSL:

Canada Ingredient Disclosure List:

CAS# 16961-25-4 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 29, 2004
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