Section I - Product Identification
An aqueous solution of gold chloride.

Section II - Hazards Identification
Warning. Harmful if swallowed. Wash thoroughly after handling. Do not eat drink or smoke while using this product. If swallowed, rinse mouth with water and call a poison center.

Safety Ratings

Health: Hazardous Flammability: None Reactivity: None Contact: Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings
Health = 2 Flammability = 0 Reactivity = 0

Potential Health Effects
The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to other soluble gold compounds.

Inhalation: Unlikely because of the low vapor pressure.

Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

Skin contact: Gold chloride is corrosive.

Eye contact: May be irritating.

Chronic Exposure: Unknown.
Aggravation of preexisting conditions: Unknown.

Section III - Composition/Information on Components

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold chloride 3H2O</td>
<td>16961-25-4</td>
<td>---------</td>
<td>---------</td>
<td></td>
<td>0.1% v/v</td>
</tr>
</tbody>
</table>

Section IV - First Aid Measures

Inhalation: Unlikely to be a problem. Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting. If the victim is conscious administer large quantities of water or other fluids. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Skin Contact: Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: Rinse thoroughly with running water. Get medical advice if irritation develops.
Section V - Fire Fighting Measures

Flash point: Not applicable.
Flammable Limits: Not applicable.
Fire: Not normally a fire Hazard.
Explosion: Not Normally an explosion hazards.
Fire Extinguishing Media: Any means suitable for surrounding fire.
Special information: Pyrolysis will release corrosive compounds such as hydrochloric acid.

Section VI - Accidental Release Measures
Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

Section VII - Handling and Storage
Store in a closed container, protected from freezing.

Section VIII - Exposure Control/Personal Protection
Airborne Exposure Limits: See section III.
Ventilation System: Usually not required. When required, Refer to the ACGIH document, “Industrial Ventilation, a Manual of Recommended Practices” for details about ventilation.
Personal Respirator: Usually not required.
Skin protection: Protective gloves are not required but recommended as part of good laboratory practice.
Eye Protection: Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties
Boiling Point: 100 °C
Density: 1.0 g/ml
Vapor pressure (mm Hg): 18 @ 20 °C
Evaporation Rate (water = 1): 1
Vapor Density (air = 1): 0.6
Solubility: Infinitely miscible with water
Appearance and Odor: A clear, yellow liquid.

Section X - Stability and Reactivity
Stability: Freezes at low temperature.
Hazardous Decomposition Products: Nothing unusual.
Hazardous polymerization: Will not occur.
Incompatibilities: Nothing unusual.
Conditions to avoid: Excessive cold/heat and light.

Section XI - Toxicological Information
Gold salts are hepatotoxic.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Chloride</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
</tbody>
</table>

Section XII - Ecological Information
Environmental Fate: Unknown
Environmental Toxicity: Unknown

Section XIII - Disposal Considerations
Recycling is desirable because of the high value of gold salts. Waste disposal is usually not restricted but local ordinances vary. Dispose of contents and container in accordance with all government regulations.
### Section XIV - Transportation Information

Not regulated.

### Section XV - Regulatory Information

#### Chemical Inventory Status

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Chloride</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Federal, State and International Regulations

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
<th>RCRA</th>
<th>TSCA</th>
<th>Ca. Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Chloride</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Chemical Weapons Convention: No  
TSCA 12(b): No  
CDTA: No

SARA 311/312: Acute: Yes, Chronic: Yes, Fire: No

### Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Nov. 29, 2017