



Gold Plating Services

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Name: TriVal Base Solution

Product Code: TVBase

Recommended use: For industrial use only.

Supplier:

Gold Plating Services
378 N Main Street #112
Layton, UT 84401 USA

Telephone no: (801) 546-6200

Emergency no: P.E.R.S (800) 633-8253 , Outside the USA and Canada (00) 1 (801) 629-0667

Current SDS preparation date: January 15, 2022

Original SDS preparation date: July 1, 2020

SECTION 2. HAZARD IDENTIFICATION

Classification:

Skin Corrosion/Irritation, Category 2

Eye Damage/Irritation, Category 2

Label elements and precautionary statements:

Signal word: Danger

Pictogram(s):



Hazards not otherwise classified: None

Hazard statement(s):

May cause skin irritation and eye damage

0.2% of this material consists of ingredients of unknown oral toxicity.

Precautionary statement(s):

Do not breathe dust, fume, gas, mist, vapors or spray.

Wash hands thoroughly after handling.

Wear protective gloves, clothing and eye and face protection.

If swallowed: Rinse mouth. DO NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center or doctor/physician if irritation persists.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Keep only in original container.
Store in a corrosive resistant container with a resistant inner liner.
Dispose of contents and container in accordance with local, state and federal regulations.

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS Number	EINECS Number	Concentration
Potassium auricyanide	14263-59-3	238-145-9	0.2%
Hydrochloric acid	7647-01-0	231-595-7	0.1%

SECTION 4. FIRST AID MEASURES

Inhalation:

Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness or irritation or difficulty in breathing.

Skin contact:

Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.

Eye contact:

Flush with water, including under lids, for fifteen minutes. Obtain medical attention if irritation persists.

Ingestion:

If patient is conscious, rinse mouth and drink at least two large glasses of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention if symptoms persist.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use media appropriate for surrounding fire such as foam, extinguishing powder, carbon dioxide or water spray. In case of fire, cool endangered containers with water spray.

Unsuitable extinguishing media: High pressure water jet.

Specific hazards in case of fire: This material is not flammable. No unusual fire or explosion hazards have been reported.

Special protective equipment and precaution for fire fighters: For fires in enclosed areas, wear self-contained breathing apparatus and full protective gear. Do not inhale combustion gases.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate skin, eye and respiratory protection. Do not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

Methods and materials for containment and cleaning up:

Wear appropriate personal protective gear including eye, skin and respiratory protection. Contain spilled material and collect by absorption or other suitable method. Flush spill area with water. Do not allow this material or its rinsings to enter storm or sanitary sewers or other waterways. (See also Section 13).

Environmental precautions:

Prevent spills and rinsings from entering storm or sanitary sewers or other waterways and contact with soil.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists or vapors. Use in well-ventilated area. Do not empty waste into sanitary drains.

Conditions for safe storage, including incompatibilities:

Store in a cool, dry area. Use with adequate ventilation. Keep container tightly closed when not in use. Store only in the original container.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

<u>Ingredient</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>Other Limits</u>
Potassium auricyanide	5 mg/m ³ (CN) STEL/c	5mg/m ³ (CN)	5 mg/m ³ (CN) STEL/C, NIOSH REL
Hydrogen chloride	2 ppm C, STEL	5 ppm C	5 ppm C, NIOSH REL

Appropriate engineering controls:

Use in well-ventilated area with local exhaust.

Respiratory protection:

Wear appropriate, approved respirator when ventilation is inadequate to meet exposure limits.

Eye protection:

Chemical splash goggles or safety glasses with side shields must be worn.

Skin protection:

Wear rubber or neoprene gloves. Wear rubber apron and long sleeves to prevent skin contact. Wash hands thoroughly with soap and water after handling and before eating or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Clear, colorless to pale pink
Odor: None
Odor threshold: Not available
pH: ~2
Melting/freezing point: Not determined
Initial boiling point: Not determined
Flash point: Not applicable
Evaporation rate: Not available
Flammability (solid, gas): Not applicable
Upper/lower explosion limits: Non-explosive
Vapor pressure: Not determined
Vapor density: Not determined
Relative density (H₂O = 1) @25 °C: 1.02 - 1.10
Solubility: Completely soluble in water at 20 °C
Partition coefficient octanol/water: Not determined
Auto-ignition temperature: Not applicable
Decomposition temperature: Not applicable
Viscosity: Similar to water

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions of storage and use.
Chemical stability: No decomposition if used according to specifications.
Possibility of hazardous reactions: None are known.
Conditions to avoid: None reported.
Incompatible materials: None Known
Hazardous decomposition products: Not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Routes of Exposure and Symptoms

Inhalation: May cause irritation to nasal and respiratory passages.

Ingestion: May cause irritation to mouth, throat, esophagus and gastrointestinal tract.
May cause nausea, vomiting and diarrhea.

Skin Contact: Prolong contact may cause skin irritation.

Eye Contact: May cause eye damage

Acute and Chronic Effects from Short- and Long-term Exposure:
See Routes of Exposure and Symptoms above.

Acute Oral Toxicity: LD50: 900 mg/kg (rabbit, hydrochloric acid)

Acute Dermal Toxicity: No applicable information available.

Acute Inhalation Toxicity: LD50: 3124 ppm/1 hour (rat, hydrochloric acid)

Acute Eye Irritation: 100 mg, rinsed, mild (rabbit, hydrochloric acid)

Dermal Irritation: No applicable information available.

Carcinogen Listings:

IARC: No

NTP: No

OSHA: No

Reproductive Effects: No applicable information available.

Target Organ Effects: No applicable information available.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: There are no data reported for this material; however, this product may be harmful to aquatic life.

Persistence and degradability: There are no data reported for this material; however, this product may be harmful to aquatic life.

Bio-accumulative potential: There are no data reported for this material.

Mobility in soil: Accidental spillage may lead to penetration in the soil and groundwater. Improper handling and disposal of this material may cause environmental damage.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Disposal of this material is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

SECTION 14. TRANSPORT INFORMATION

	US DOT	IATA	IMDG	TDG
UN number	Not regulated for transport	Not regulated for transport	Not regulated for transport	Not regulated for transport
UN proper shipping name	N/A	N/A	N/A	N/A
Transport hazard class	N/A	N/A	N/A	N/A
Packing group	N/A	N/A	N/A	N/A
Environmental hazards	N/A	N/A	N/A	N/A
Additional information	N/A	N/A	N/A	N/A

Marine Pollutant: No

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SECTION 15. REGULATORY INFORMATION

Inventory Status:

All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

U.S. Regulations:

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

SARA (311/312) HAZARD CATEGORIES:

None Immediate Delayed Fire Reactive Pressure generating

SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.

Chemical Name	CAS Number	Concentration
Potassium auricyanide	14263-59-3	0.7%
Hydrochloric acid	7647-01-0	0.6%

The following product components are cited on the lists below:

Chemical Name	CAS Number	List Citations
None		California Proposition 65 List

SECTION 16. OTHER INFORMATION

VOC (Volatile Organic Compounds): None

HMIS Ratings:

Health: 2 **Flammability:** 0 **Reactivity:** 0 **Personal Protection:** C

SDS Preparation date: July 1, 2020

Supersedes previous version: Original

The information contained herein is accurate to the best of our knowledge. Gold Plating Services. makes no warranty of any kind, express or implied, concerning the safe use of this material in any process or in combination with other substances.

End of Safety Data Sheet