



Section 1 – Company and Substance Identification

Product Name: 24kt Gold Solution
Formula: Proprietary
Product Information: 800-551-1117

Gold Effects, LLC
13130 56th Court Suite 609
Clearwater, FL 33760
United States of America

<u>24-Hour Emergency Response - VelocityEHS</u>	
VelocityEHS (Domestic)	800-255-3924
VelocityEHS (International)	813-248-0585
Contract Number:	MIS2264170

Section 2 – Hazard Identification

Classification:

Skin corrosion/irritation	Category 1B
Acute toxicity, oral	Category 4
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label elements including precautionary statements:



Signal Word

DANGER

HAZARD STATEMENTS

Causes severe skin burns and eye damage
Harmful if swallowed
Suspected of causing cancer
Very toxic to aquatic life with long lasting effects

PREVENTION

Do not breathe mist or vapor. Wash hands thoroughly after handling. Wear protective gloves, clothing and eye and face protection. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**STORAGE**

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

DISPOSAL

Dispose of contents/containers in accordance with local regulations.

Section 3 – Composition / Information on Ingredients

Chemical Name	CAS No	weight-%
Potassium aurocyanide	13967-50-5	<1
Cobalt ethylenediamine tetraacetate	14931-83-0	0.88
Nickel nitrilotriacetate	34831-03-3	0.11

Note: Remaining volume of mixture consists of de-ionized water (H₂O) equaling 100% by weight.

Section 4 – First Aid Measures**EYE CONTACT:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

SKIN CONTACT:

If skin irritation or rash occurs: Get medical advice/attention. Remove immediately all contaminated clothing. Rinse skin with water. Do NOT use solvents or thinners.

INHALATION:

Call a poison control center or doctor/physician immediately. Remove person to fresh air and keep comfortable for breathing. If patient is unconscious, oxygen should be administered by trained medical personnel.

INGESTION:

Call a poison control center or doctor/physician immediately. Do NOT induce vomiting. Trained medical personnel should administer activated charcoal slurry (50g of activated carbon, slurred in 400ml of water). Give 5ml per 1kg of body weight (approx. 350ml for average adult).

After first aid, seek proper medical attention.



Section 5 – Firefighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), Foam, Powder

Hazards:

Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes.

Firefighting Instructions:

DO NOT use water jet as an extinguisher, as this will spread the fire. Shut off the fuel to the fire. Either allow the fire to burn under controlled conditions, or extinguish with foam or dry chemical. Cover liquid spills with foam.

Further Information:

Fire may produce toxic thermal decomposition products, including hydrogen cyanide fumes. Wear a self-contained breathing device with a full face piece using pressure demand or positive-pressure mode.

Section 6 – Accidental Release Measures

Personal Precautions:

Avoid breathing vapors or mists. Use personal protective equipment. Avoid contact with skin, eyes or clothing. Keep people away from spill/leak.

Environmental Precautions:

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment:

Prevent further leakage or spillage if safe to do so.

Methods for Cleanup:

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal.



Section 7 – Handling and Storage

HANDLING PRECAUTIONS

General Handling:

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

STORAGE CONDITIONS

Safe Storage:

Store in accordance with local regulations. Keep container tightly closed in a dry and well-ventilated place. Keep tightly closed in a dry and cool place. Store only in the original container.

Incompatible Materials:

Oxidizing agents, Acids.

Section 8 – Exposure Controls / Personal Protection

EXPOSURE LIMITS

Chemical Name	ACGIH TLV	OSHA PEL
Potassium aurocyanide 13967-50-5	STEL: 5 mg/m ³ 8 hours.	5 mg/m ³
Cobalt ethylenediamine tetraacetate 14931-83-0	TWA: 0.02 mg/m ³ 8 hours.	0.1 mg/m ³
Nickel nitilotriacetate 34831-03-3	TWA: 0.1 mg/m ³ 8 hours.	1 mg/m ³

ENGINEERING CONTROLS

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

PROTECTION MEASURES

Eye/Face Protection:

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



Skin and Body Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear suitable protective clothing.

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory Protection:

In case of inadequate ventilation wear respiratory protection.

Section 9 – Physical and Chemical Properties

Physical State	Liquid
Color	Clear, purple
Odor	Slight cyanide
pH	4 - 6
Boiling Point / Range	100 °C / 212 °F
Flash Point	Not applicable
Evaporation Rate	No information available
Flammability Limit:	
Upper Flammability Limit	Not applicable
Lower Flammability Limit	Not applicable
Relative Density (H₂O=1) @20 °C	1.15
Solubility(ies)	Completely soluble in water
Viscosity	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Percent Volatile	No information available
Specific Gravity	No information available

Section 10 – Stability and Reactivity

Reactivity:

Stable under normal conditions.

Chemical Stability:

Stable under normal conditions.

Possibility of Hazardous Reactions:

None under normal processing.

Hazardous Polymerization:

None under normal processing.



Conditions to Avoid:

Contact with incompatible materials.

Incompatible Materials:

Oxidizing agents, Acids.

Hazardous Decomposition Products:

May release toxic hydrogen cyanide fumes upon heating to dryness.

Section 11 – Toxicological Information

EXPOSURE INFORMATION

Eye Contact	Causes serious eye damage.
Skin Contact	Causes severe skin burns.
Ingestion	Causes digestive tract burns.
Inhalation	May cause respiratory irritation. Prolonged inhalation may be harmful.

EFFECTS OF SHORT AND LONG-TERM EXPOSURE

Eyes	Stinging, tearing, redness, swelling, blurred vision. Permanent eye damage including blindness could result.
Skin	May cause "cyanide rash" with skin eruptions.
Respiratory Sensitization	Not applicable
Reproductive Toxicity	Not applicable
Carcinogenicity	
IARC: Yes	Group 2B, cobalt compounds Group 1, nickel compounds
Specific Target Organ Toxicity:	
Single Exposure	Not applicable
Repeated Exposure	Not applicable

ACUTE ORAL TOXICITY

Chemical Name	LD50
Potassium aurocyanide 13967-50-5	29 mg/kg (rat)



Section 12 – Ecological Information

Eco-toxicity:

Toxic to aquatic life. Prevent product from entering drains.

Persistence and Degradability:

No information available

Bioaccumulation:

No information available

Mobility:

May penetrate soil and enter groundwater. Improper handling and disposal may cause environmental damage.

Other Adverse Effects:

No information available

Section 13 – Disposal Considerations

WASTE TREATMENT METHODS

Disposal of Wastes:

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Contaminated Packaging:

Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

**Section 14 – Transport Information**

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
UN/ID Number	UN3287	UN3287	UN3287
Proper Shipping Name	Toxic Liquid, Inorganic, N.O.S. (Potassium Metallic Cyanide Mixture)	Toxic Liquid, Inorganic, N.O.S. (Potassium Metallic Cyanide Mixture)	Toxic Liquid, Inorganic, N.O.S. (Potassium Metallic Cyanide Mixture)
Hazard Class	6.1	6.1	6.1
Packing Group	III	III	III
Environmental Hazard	-	Marine pollutant (cyanide mixtures)	-
Additional Information	None identified	None identified	None identified

Section 15 – Regulatory InformationINTERNATIONAL INVENTORIES

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

SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Section 16 – Other InformationHMIS

Health Hazards	3
Flammability	0
Physical Hazards	0
Personal Protection	C

SUPPLIER ADDRESS

Gold Effects, LLC
13130 56th Court Suite 609
Clearwater, FL 33760
United States of America
800.230.6358



SAFETY DATA SHEET

24kt Gold Solution

Revised 08/05/2022

Prepared By
Revision Date

Gold Effects, LLC
August 5th, 2022

DISCLAIMER

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation, and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. Products are intended for professional use only by applicators with proper knowledge and training.

End of Safety Data Sheet