

ITEM# Z49-670-P

Safety Data Sheet dated 25/2/2020, version 1

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

- 1.1. Product identifier **14K GOLD PLATING FOR PEN**  
Mixture identification: **ITE# Z49-670-P**  
Trade name: **GP1-2N**  
Trade code: **AP032-115**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- 1.3. Details of the supplier of the safety data sheet  
Company: **Romanoff International Supply Corporation**  
**9 Deforest Street**  
**Amityville, NY 11701 US**  
**Tel: 631-842-2400**

- 1.4. Emergency telephone number **CHEM TEL, Account# MIS4594445**
- United States, Canada, Puerto Rico & U.S. Virgin Islands: 1-800-255-3924**  
**Australia: 1-300-954-583, Brasil: 0-800-591-6042, China: 400-120-0751,**  
**India: 000-800-100-4086, Mexico: 800-099-0731**  
**ALL OTHER COUNTRIES: 1-813-248-0585**

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## SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP)
-  **Danger, Acute Tox. 3, Toxic if swallowed.**
  -  **Warning, Acute Tox. 4, Harmful in contact with skin.**
  -  **Danger, Acute Tox. 3, Toxic if inhaled.**
  -  **Warning, Skin Sens. 1A, May cause an allergic skin reaction.**
  -  **Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.**

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

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Danger

Hazard statements:

- H301+H331 Toxic if swallowed or if inhaled.
- H312 Harmful in contact with skin.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special Provisions:

None

Contains

- Potassium dicyanoaurate (I)
- Potassium cyanide
- Copper iodide
- EDTA bisodic salt

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

### SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.














3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 1% - < 3%	EDTA bisodic salt	CAS: 6381-92-6	! 3.1/4/Inhal Acute Tox. 4 H332
		EC: 205-358-3	! 3.9/2 STOT RE 2 H373
>= 1% - < 3%	Potassium dicyanoaurate (I)	CAS: 13967-50-5 EC: 237-748-4	! 2.16/1 Met. Corr. 1 H290
			! 3.1/2/Inhal Acute Tox. 2 H330
			! 3.1/2/Dermal Acute Tox. 2 H310
			! 3.1/2/Oral Acute Tox. 2 H300
			! 4.1/C1 Aquatic Chronic 1 H410
			! EUH032
>=	Potassium cyanide	CAS: 151-50-8	! 2.16/1 Met. Corr. 1 H290

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0.05% - < 0.1%			 3.1/1/Dermal Acute Tox. 1 H310  3.1/1/Inhal Acute Tox. 1 H330  3.1/1/Oral Acute Tox. 1 H300  3.9/1 STOT RE 1 H372  4.1/A1 Aquatic Acute 1 H400 M=10.  4.1/C1 Aquatic Chronic 1 H410 M=10.
>= 0.25% - < 0.5%	Copper iodide	CAS: 7681-65-4	 3.1/4/Oral Acute Tox. 4 H302  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.4.2/1A Skin Sens. 1A H317  3.9/1 STOT RE 1 H372  4.1/A1 Aquatic Acute 1 H400 M=10.  4.1/C2 Aquatic Chronic 2 H411 M=1.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

##### 4.2. Most important symptoms and effects, both acute and delayed

None

##### 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

#### SECTION 5: Firefighting measures



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- 5.1. Extinguishing media
  - Suitable extinguishing media:
    - Water.
    - Carbon dioxide (CO<sub>2</sub>).
  - Extinguishing media which must not be used for safety reasons:
    - None in particular.
- 5.2. Special hazards arising from the substance or mixture
  - Do not inhale explosion and combustion gases.
  - Burning produces heavy smoke.
- 5.3. Advice for firefighters
  - Use suitable breathing apparatus .
  - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
  - Move undamaged containers from immediate hazard area if it can be done safely.

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#### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
  - Wear personal protection equipment.
  - Wear breathing apparatus if exposed to vapours/dusts/aerosols.
  - Provide adequate ventilation.
  - Use appropriate respiratory protection.
  - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
  - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
  - Retain contaminated washing water and dispose it.
  - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
  - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
  - Wash with plenty of water.
- 6.4. Reference to other sections
  - See also section 8 and 13

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#### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
  - Avoid contact with skin and eyes, inhalation of vapours and mists.
  - Use localized ventilation system.
  - Don't use empty container before they have been cleaned.
  - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
  - See also section 8 for recommended protective equipment.
  - Advice on general occupational hygiene:
    - Contaminated clothing should be changed before entering eating areas.
    - Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
  - Always keep in a well ventilated place.
  - Keep away from food, drink and feed.
  - Incompatible materials:
    - None in particular.
  - Instructions as regards storage premises:
    - Cool and adequately ventilated.
- 7.3. Specific end use(s)
  - None in particular

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#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

Potassium cyanide - CAS: 151-50-8

EU - TWA(8h): 1 mg/m<sup>3</sup> - STEL: 5 mg/m<sup>3</sup> - Notes: Skin

ACGIH - STEL: Ceiling 5 mg/m<sup>3</sup> - Notes: Skin - URT irr, headache, nausea, thyroid eff

##### DNEL Exposure Limit Values

N.A.

##### PNEC Exposure Limit Values

N.A.

##### 8.2. Exposure controls

###### Eye protection:

Use close fitting safety goggles, don't use eye lens.

###### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

###### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

###### Respiratory protection:

Use adequate protective respiratory equipment.

###### Thermal Hazards:

None

###### Environmental exposure controls:

None

###### Appropriate engineering controls:

None

#### SECTION 9: Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Colourless liquid	--	--
Odour:	Odourless	--	--
Odour threshold:	N.A.	--	--
pH:	8	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	100°C	--	--
Flash point:	N.A.	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	17,5 mmHg a 20°C	--	--
Vapour density:	N.A.	--	--
Relative density:	1.005 g/cc a 20°C	--	--
Solubility in water:	Total	--	--
Solubility in oil:		--	--
Partition coefficient	N.A.	--	--

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(n-octanol/water):			
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
VOC:	--	--	--
Substance Groups relevant properties	N.A.	--	--

## SECTION 10: Stability and reactivity

- 10.1. Reactivity
  - Stable under normal conditions
- 10.2. Chemical stability
  - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
  - None
- 10.4. Conditions to avoid
  - Stable under normal conditions.
- 10.5. Incompatible materials
  - None in particular.
- 10.6. Hazardous decomposition products
  - None.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the product:

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#### a) acute toxicity

The product is classified: Acute Tox. 3 H301; Acute Tox. 4 H312; Acute Tox. 3 H331

ATEmix - Oral 65,1425 mg/kg

ATEmix - Dermal 1166,53 mg/kg

ATEmix - Inhalation (Vapours) 6,45241 mg/l

#### b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

#### c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

#### d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1A H317

#### e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

#### f) carcinogenicity



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Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Potassium cyanide - CAS: 151-50-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 7.49 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 63 Ppm - Duration: 1h

Test: LD50 - Route: Skin - Species: Rabbit = 11.3 mg/kg

Copper iodide - CAS: 7681-65-4

a) acute toxicity:

Test: LD50 - Route: Oral = 300 mg/kg

Test: LD50 - Route: Skin > 2000 mg/kg

Potassium dicyanoaurate (I) - CAS: 13967-50-5

No information is available on the product. Following data are referred to the decomposition product, hydrogen cyanide:

Inhalation toxicity: 200-400 mg/mc (ppm); if present in air for some minutes, they cause death.

Swallowing toxicity: not applicable.

Skin contact toxicity (Draize test): unknown reaction, possibly serious due to high reactivity of substance.

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Chronic 2 - H411

Potassium cyanide - CAS: 151-50-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.045 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.083 mg/l - Duration h: 48

Endpoint: EC10 - Species: Algae = 0.158 mg/l - Duration h: 72

Endpoint: EC50 - Species: Algae = 0.331 mg/l - Duration h: 72

Copper iodide - CAS: 7681-65-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: *Oncorhynchus mykiss* = 1.67 mg/l - Duration h: 96

Endpoint: EC50 - Species: *Daphnia magna* = 0.59 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.13 mg/l - Duration h: 72

### 12.2. Persistence and degradability

None

N.A.

### 12.3. Bioaccumulative potential

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- N.A.
- 12.4. Mobility in soil  
N.A.
- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects  
None

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#### SECTION 13: Disposal considerations

- 13.1. Waste treatment methods  
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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#### SECTION 14: Transport information



- 14.1. UN number  
ADR-UN Number: 1935  
IATA-UN Number: 1935  
IMDG-UN Number: 1935
- 14.2. UN proper shipping name  
ADR-Shipping Name: CYANIDE SOLUTION, N.O.S. (Potassium dicyanoaurate (I), Potassium cyanide)  
IATA-Shipping Name: CYANIDE SOLUTION, N.O.S. (Potassium dicyanoaurate (I), Potassium cyanide)  
IMDG-Shipping Name: CYANIDE SOLUTION, N.O.S. (Potassium dicyanoaurate (I), Potassium cyanide)
- 14.3. Transport hazard class(es)  
ADR-Class: 6.1  
ADR - Hazard identification number: 60  
IATA-Class: 6.1  
IATA-Label: 6.1  
IMDG-Class: 6.1  
IMDG-Class: Not dangerous for transportation
- 14.4. Packing group  
ADR-Packing Group: II  
IATA-Packing group: II  
IMDG-Packing group: II
- 14.5. Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No
- 14.6. Special precautions for user  
Rail (RID): Not dangerous for transportation  
ADR-Subsidiary hazards: -  
ADR-S.P.: 274 525  
IATA-Passenger Aircraft: 654  
IATA-Subsidiary hazards: -  
IATA-Cargo Aircraft: 661  
IATA-S.P.: A3



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IATA-ERG: 6L  
IMDG-EmS: F-A , S-A  
IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category A SW2  
IMDG-Segregation: SG35 SGG6  
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
N.A.

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#### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1  
Product belongs to category: H2, E2

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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#### SECTION 16: Other information

Text of phrases referred to under heading 3:

H332 Harmful if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H290 May be corrosive to metals.  
H330 Fatal if inhaled.  
H310 Fatal in contact with skin.  
H300 Fatal if swallowed.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH032 Contact with acids liberates very toxic gas.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.

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H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H372 Causes damage to organs (thyroid) through prolonged or repeated exposure if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 1	3.1/1/Dermal	Acute toxicity (dermal), Category 1
Acute Tox. 1	3.1/1/Inhal	Acute toxicity (inhalation), Category 1
Acute Tox. 1	3.1/1/Oral	Acute toxicity (oral), Category 1
Acute Tox. 2	3.1/2/Dermal	Acute toxicity (dermal), Category 2
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 2	3.1/2/Oral	Acute toxicity (oral), Category 2
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This safety data sheet has been completely updated in compliance to Regulation 2015/830. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Acute Tox. 3, H301	Calculation method
Acute Tox. 4, H312	Calculation method
Acute Tox. 3, H331	Calculation method
Skin Sens. 1A, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.  
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

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It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.