

KORAS Electro-Polishing Liquid: Gold

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

- **1.1 Product identifier**
 - **Trade name:** EPL 1 (Gold Electrolyte)
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
 - **Application of the substance / the preparation:** Metal working auxiliary
 - **Uses advised against -**
 - **1.3 Details of the supplier of the safety data sheet**
 - **Supplier/Manufacturer:**
Romanoff International Supply Corp
9 Deforest Street
Amityville, New York, 11701 USA
Phone: +1 631-842-2400
websales@romanoff.com
 - **1.4. Emergency telephone number :** CHEMTEL.
- CHEMTEL ACCOUNT: #MIS4594445
- USA, CANADA, PUERTO RICO & US VIRGIN ISLANDS: 1-800-255-3924
AUSTRALIA: 1-300-954-583 BRAZIL: 0-800-591-6042
CHINA: 400-120-0751 INDIA: 000-800-100-4086
MEXICO: 800-099-0731 ALL OTHER COUNTRIES: 1-813-248-0585

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **Information concerning particular hazards for human and environment:**
Based on the classification criteria for mixtures according to Regulation (EC) No. 1272/2008, the mixture is subject to labelling.
- **Classification system:**
The classification complies with current legislation, but is supplemented with information from technical literature and company information.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger

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Trade name: EPL 1 (Gold Electrolyte)

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- **Hazard-determining components of labelling:**

Isotridecanol, ethoxylated (> 5-15 mol e.o.)

- **Hazard statements**

H318 Causes serious eye damage.

- **Precautionary statements**

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable

- **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 69011-36-5	Isotridecanol, ethoxylated (> 5-15 mole.o.)	5-10%
	Eye Dam. 1, H318; Acute Tox. 4, H302	

CAS: 1762-95-4	ammonium thiocyanate	1-5%
EINECS: 217-175-6	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Aquatic Chronic 3, H412	
Index number: 615-004-00-3		
REACH-no: 01-2119543696-28-xxxx		

CAS: 62-56-6	thiourea	< 1%
EINECS: 200-543-5	Carc. 2, H351; Repr. 2, H361d; Aquatic Chronic 2, H411; Acute Tox. 4, H302	
Index number: 612-082-00-0		

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Be sure to show this safety data sheet, the packaging or the instructions for use to the physician.

If symptoms persist or in case of doubt, seek medical advice.

- **After inhalation:** Supply fresh air; consult a doctor in case of pain.

- **After skin contact:**

Wash with water and soap.

If symptoms persist, consult a doctor.

- **After eye contact:**

Protect unharmed eye.

Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult an eye specialist immediately.

- **After swallowing:**

Rinse mouth with water.

Spit liquid out again.

Do not induce vomiting.

If symptoms persist, consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed**

Serious damage to eyes

Nausea

Vomiting

Diarrhoea

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Gastric or intestinal disorders.

Spasms

Difficulties in breathing

Circulatory collapse

· **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

· **For safety reasons unsuitable extinguishing agents:** No data available

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

Sulphur oxides (SO_x)

· 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained respiratory protective device.

· Additional information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Avoid contact with eyes and skin.

Do not breathe aerosol or vapors.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Make sure to recycle or dispose of in suitable receptacles.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid contact with eyes and skin.

Do not breathe aerosol or vapors.

· **Information about protection against explosions and fires:** Observe the general rules of industrial fire protection.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· **Requirements to be met by storerooms and receptacles:** Store cool and dry in a well ventilated area.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

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Store away from feed.

Refer to national regulations for storing hazardous chemicals.

- **Further information about storage conditions:** Protect from heat.
- **Storage class:** 10-13 other combustible and non-combustible substances
- **7.3 Specific end use(s)** No further relevant information available

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems:

Mechanical ventilation/exhaustion is strongly recommended.

No further data; see section 7.

· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists that were valid during the creation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

The usual precautionary measures should be adhered to when handling chemicals.

Do not inhale gases/fumes/aerosols.

Avoid contact with eyes and skin.

Wash hands before breaks and at the end of work.

- **Breathing equipment:** Not required

· Protection of hands:

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves:

The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information:

· Appearance:

Form:	Liquid
Colour:	Clear
	Yellowish
· Odour:	Characteristic
· Odour threshold:	Not determined

- **pH-value at 20 °C:** 6.5 - 7.0

· Change in condition:

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

- **Flash point:** Not determined

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· Flammability (solid, gaseous):	Not applicable
· Ignition temperature:	Not determined
· Decomposition temperature:	Not determined
· Self ignition temperature:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not applicable
Upper:	Not applicable
· Oxidizing properties:	Not determined
· Vapour pressure:	Not determined
· Density at 20 °C:	~1.030 g/cm ³
· Relative density:	Not determined
· Vapour density:	Not determined
· Evaporation rate:	Not determined
· Solubility in / Miscibility with Water:	Miscible
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
· 9.2 Other information	No further relevant information available

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available
- **10.5 Incompatible materials:** No further relevant information available
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if instructions for storage and handling are followed

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**
ATE oral: 6250 mg/kg
ATE dermal: >5000 mg/kg
ATE inhalation (vapours): >50 mg/l
- **62-56-6 thiourea**
Oral LD₅₀ > 2000 < 2500 mg/kg (rat/female) (OECD 423)
Dermal LD₅₀ > 2800 mg/kg (rabbit) (OECD 402)

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Inhalative LC₅₀ > 195 mg/m³ (rat) (OECD 403)

Route of administration: dispersion of 10 % thiourea (highest attainable concentration in water) to a fine mist

Type of inhalation: whole body; ca. 4 h

69011-36-5 Isotridecanol, ethoxylated (> 5-15 mol e.o.)Oral LD₅₀ 500-2000 mg/kg (rat)Dermal LD₅₀ > 2000 mg/kg (rat)· **Primary irritant effect:**· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.· **Serious eye damage/irritation**

Causes serious eye damage.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.· **Carcinogenicity** Based on available data, the classification criteria are not met.· **Reproductive toxicity** Based on available data, the classification criteria are not met.· **STOT-single exposure** Based on available data, the classification criteria are not met.· **STOT-repeated exposure** Based on available data, the classification criteria are not met.· **Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****62-56-6 thiourea**LC₅₀/96h (static) > 600 mg/l (Pimephales promelas)

The 96-h LC0 was determined to be <= 600 mg/L

EC₅₀/48h (static) 35 mg/l (Daphnia magna)EC₅₀/96h (static) 4.8 - 10 mg/l (Desmodesmus subspicatus)

weight of evidence

· **12.2 Persistence and degradability** No further relevant information available· **12.3 Bioaccumulative potential** No further relevant information available· **12.4 Mobility in soil** No further relevant information available· **Additional ecological information:**· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous to water

According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water even if small quantities leak into the ground.

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable· **vPvB:** Not applicable· **12.6 Other adverse effects** No further relevant information available**SECTION 13: Disposal considerations**· **13.1 Waste treatment methods**· **Recommendation:**

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

Disposal according to instructions of local authorities

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· **European waste catalogue:**

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 02 00 wastes from MFSU of other coatings (including ceramic materials)

08 02 99 wastes not otherwise specified

· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable
· 14.6 Special precautions for user	Not applicable
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	Not dangerous according to the above regulations
· UN "Model Regulation":	Void

SECTION 15: Regulatory information· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3· **National regulations**· **Class Share in %:**· **Wasser** 84.7

I 1.0

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

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H318 Causes serious eye damage.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008** Eye Dam.1 calculation method· **Department issuing SDS:**

KFT Chemieservice GmbH

Im Leuschnerpark. 3 64347 Griesheim

Postfach 1451 64345 Griesheim

Germany

Phone: +49 6155 8981 400 Fax: +49 6155 8981 500

Safety Data Sheet Service: +49 6155 8981 522

· **Contact:** Dr. Sonja Fischer· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Sources:** MSDSs of the suppliers
