Printing date 11.01.2016

Version: 5

Revision: 11.01.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name: <u>EL-FORM S Vorvergoldungsbad</u> Article number: 625009-1 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture Galvanic bath

· 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier:

Schütz Dental GmbH, Dieselstrasse 5-6, D-61191 Rosbach v.d.H. (Germany) Tel.: +49 (0)6003/814-0 Fax: +49 (0)6003/814-900 www.schuetz-dental.de; e-mail: info@schuetz-dental.de

- Further information obtainable from: F&E, Tel. +49 (0)6003/814-100
- · 1.4 Emergency telephone number:
- +49 (0) 6003 8140 Schütz Dental (8:00 17:00 Uhr) or
- +49 (0) 6131 19240 Poison Information Center, University Mainz (24 h)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

- · Classification according to Regulation (EC) No 1272/2008
- Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

- · 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*



- · Signal word Warning
- Hazard-determining components of labelling: potassium dicyanoaurate
- · Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P322 Specific measures (see on this label).

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Labelling of packages where the contents do not exceed 125 ml
- · Hazard pictograms



GB

Printing date 11.01.2016

Version: 5

Revision: 11.01.2016

Trade name: EL-FORM S Vorvergoldungsbad

- · Signal word Warning
- Hazard-determining components of labelling: potassium dicyanoaurate
- · Hazard statements Void
- · 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: gold-complex-solution for galvanic deposition of gold

· Dangerous components:

Dungerous compone	<i>ins</i> .	
		2,5-10%
EINECS: 231-639-5	😔 Skin Corr. 1A, H314	
	potassium dicyanoaurate	< 2,5%
EINECS: 237-748-4	🛞 Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 1, H330	
Additional informat	ion For the wording of the listed risk physics refer to section 16	

• Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

- Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Acid-resisting clothing

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

· 6.2 Environmental precautions:

Dilute with plenty of water.

(Contd. on page 3)

(Contd. of page 1)

Printing date 11.01.2016

Version: 5

Revision: 11.01.2016

Trade name: EL-FORM S Vorvergoldungsbad

Do not allow to enter sewers/ surface or ground water.

 \cdot 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

 \cdot 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 Prevent formation of aerosols.

· Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

• Requirements to be met by storerooms and receptacles: Storage between 10 °C and 25 °C.

- · Information about storage in one common storage facility:
- Do not store together with alkalis (caustic solutions).

· Further information about storage conditions: Keep receptacle tightly sealed.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- Ingredients 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

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 valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment
- General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Respiratory protection: Not necessary if room is well-ventilated.
- · Protection of hands: Acid resistant gloves
- *Material of gloves Rubber gloves Natural rubber, NR*
- · Penetration time of glove material
- 0,1 0,2 mm
- Penetration time: 5 min.
- *Eye protection: Tightly sealed goggles.*
- Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

Fluid

Pink

- · General Information
- · Appearance:
 - Form: Colour:

(Contd. on page 4)

Printing date 11.01.2016

Version: 5

Revision: 11.01.2016

Trade name: EL-FORM S Vorvergoldungsbad

		(Contd. of page 3
· Odour:	Odourless	
· pH-value at 20 °C:	1-2	
• Change in condition Melting point/Melting rang Boiling point/Boiling range		
· Flash point:	Not applicable	
· Self-igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
• Vapour pressure at 20 •C:	23 hPa	
· Density at 20 •C:	1 g/cm ³	
· Solubility in / Miscibility with Water:	Fully miscible	
 Solvent content: Organic solvents: 9.2 Other information 	0,0 % 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 according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: Alkali
- · 10.6 Hazardous decomposition products: Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed, in contact with skin or if inhaled.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, 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: No further relevant information available.
- 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.

(Contd. on page 5)

GB

Printing date 11.01.2016

Version: 5

Revision: 11.01.2016

Trade name: EL-FORM S Vorvergoldungsbad

· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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 specially treated adhering to official regulations.

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

· European waste catalogue

06 01 01* sulphuric acid and sulphurous acid

· Uncleaned packaging:

*

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN-Number · ADR, IMDG, IATA	UN2922
· 14.2 UN proper shipping name · ADR	2922 CORROSIVE LIQUID, TOXIC, N.O.S. (SULPHURI ACID, potassium dicyanoaurate)
· IMDG	CORROSIVE LIQUID, TOXIC, N.O.S. (SULPHURI) ACID, potassium dicyanoaurate)
·IATA	<i>Corrosive liquids, toxic, n.o.s. (Sulfuric acid, potassiur dicyanoaurate)</i>
· Class	8 (CT1) Corrosiva substances
· Class · Label	8 (CT1) Corrosive substances. 8+6.1
· IMDG	

(Contd. of page 4)

Printing date 11.01.2016

Version: 5

Revision: 11.01.2016

Trade name: EL-FORM S Vorvergoldungsbad

	(Contd. of page
· Label	8/6.1
·IATA	
· Class	8 Corrosive substances.
· Label	8 (6.1)
· 14.4 Packing group · ADR, IMDG, IATA	111
· 14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	86
EMS Number:	F-A,S-B
Segregation groups	Acids, cyanides
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	<i>E</i>
· IMDG	
Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN ''Model Regulation'':	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S
	(SULPHURIC ACID, POTASSIUM DICYANOAURATE), (6.1), III

SECTION 15: Regulatory information

 \cdot 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.

· National regulations

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 7)

GB

Printing date 11.01.2016

*

Version: 5

Revision: 11.01.2016

Trade name: EL-FORM S Vorvergoldungsbad

(Contd. of page 6)

_	This information is based on our present browledge. However, this shall not constitute a suggestion for
	This information is based on our present knowledge. However, this shall not constitute a guarantee for specific product features and shall not establish a legally valid contractual relationship.
	Relevant phrases
	H300 Fatal if swallowed.
	H310 Fatal in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H330 Fatal if inhaled.
	Department issuing MSDS: F & E
•	Contact: Dr. U. Krichbaum
•	Abbreviations and acronyms:
	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concernin
	International Transport of Dangerous Goods by Rail)
	IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
	ICAO: International Civil Aviation Organisation
	ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internati Carriage of Dangerous Goods by Road)
	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)
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Acute Tox. 2: Acute toxicity, Hazard Category 2
	Acute Tox. 4: Acute toxicity, Hazard Category 4
	Acute Tox. 1: Acute toxicity, Hazard Category 1 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A