SECTION 1: Identification of the substance/preparation/and of the company

1.1 Product identifier

S-U-GILDING-LIQUID **20 ml, 1250 ml**

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Electrolyte for direct gold plating of Co-Cr alloys

1.2.2 Uses advised against

No information available at present.

1.3 Details of the supplier of the safety data sheet

Company
SCHULER-DENTAL GmbH & Co. KG
Johannesstraße 6-8
89081 Ulm / DEUTSCHLAND
Telephone: +49 (0) 731 / 92772 - 0
Fax: +49 (0) 731 / 92772 - 49
Internet: www.schuler-dental.com
E-mail: info@schuler-dental.com

Address enquiries to
Technical information export@schuler-dental.com
Safety Data Sheet sicherheitsdatenblatt@schuler-dental.com

1.4 Emergency telephone number

Emergency information services / official advisory body:

+49 (0) 89 19240 (D-81675 Munich, 24 hour)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Corrosive to metals, Category 1	H290 May be corrosive to metals.
Acute toxicity, Category 4	H312 Harmful in contact with skin.
Skin corrosion, Category 1B	H314 Causes severe skin burns and eye damage.
Eye irritation, Category 2	H319 Causes serious eye irritation.
Carcinogenicity, Category 1B	H350i May cause cancer by inhalation.
Chronic aquatic toxicity, Category 3	H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)
Hazard pictograms

GHS08 GHS05 GHS07

Signal word Danger

Contains: phosphoric acid, potassiumtetracyanoaurate(III), cobalt sulphate

Hazard statements

H290	May be corrosive to metals.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H350i	May cause cancer by inhalation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P201	Obtain special instructions before use.
P208	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340+P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Im-mediately call a POISON CENTER or doctor/ physician.
P305+P315+P338	IF IN EYES: Rinse cautiously with wa-ter for several minutes. Remove contact lenses, if pre sent and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.

Additional Labelling:

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 4,8 %
The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 4,8 %
The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 4,8 %
The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 2,5 %

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Hazardous components

Content %	Component
4,8	phosphoric acid
	CAS: 7664-38-2, EC: 231-633-2
	GHS/CLP: Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412
2,5	sulphuric acid
	CAS: 7664-93-9, EC: 231-639-5 / 01-2119458838-20
	GHS/CLP: Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318
0,4	potassiumtetracyanoaurate(III)
	CAS: 14263-59-3, EC: 238-145-9
	GHS/CLP: Met. Corr. 1, H290; Acute Tox. 2, H300; Acute Tox. 2, H330; Acute Tox. 1, H310; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
0,2	cobalt sulphate
	CAS: 10124-43-3, EC: 233-334-2 / 01-2119517426-41
	GHS/CLP: Acute Tox. 4, H302; Eye Irrit. 2, H319; Resp. Sens. 1B, H334; Skin Sens 1A, H317; Muta. 2, H341; Carc. 1B, H350i; Repr. 1B, H360F; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

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

Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.
No mouth-to-mouth or mouth-to-nose artificial respiration. Use artificial respiration bag or respirator.
If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

If inhaled

Call a physician or poison control centre immediately.
Move to fresh air.
If unconscious, place in recovery position and get medical attention immediately.

In case of skin contact

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Take victim immediately to hospital.
Wash contaminated clothing before reuse.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact

Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Remove contact lenses.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed

Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Skin contact may provoke the following symptoms:
Burn
Corrosive effects
Allergic reactions
Redness
Inhalation may provoke the following symptoms:
Shortness of breath
Asthma
Eye contact
Excessive lachrymation

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting
Cool closed containers exposed to fire with water spray.
In the presence of fire, note caustic and corrosive effect.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products
Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
See Section 7, 8 and 13 for information on safe handling, personal protection equipment and disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure – obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion
Normal measures for preventive fire protection.

Hygiene measures
When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight.

Storage class (TRGS 510)
6.1B, Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

Other data
Keep in a dry place. No decomposition if stored and applied as directed.

7.3 Specific end use(s)
No further data.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

CAS-No.	Components	Value type (Form of exposure)	Control parameters	Basis
7664-38-2	phosphoric acid	TWA	1 mg/m³	2000/39/EC
	Further information	Indicative		
		STEL	2 mg/m³	2000/39/EC
	Further information	Indicative		
		AGW (Inhalable fraction)	2 mg/m³	DE TRGS 900
	Peak-limit: excursion factor (category)	2;(I)		
	Further information	Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
7664-93-9	Sulphuric acid	AGW (Inhalable fraction)	0,1 mg/m³	DE TRGS 900
	Peak-limit: excursion factor (category)	1;(I)		
	Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		

	TWA (Mist)	0,05 mg/m³	2009/161/EU
Further information	Indicative, When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds., The mist is defined as the thoracic fraction.		

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Sulphuric acid	Workers	Inhalation	Acute local effects	0,1 mg/m³
	Workers	Inhalation	Long-term local effects	0,05 mg/m³
Cobalt sulphate	Workers	Inhalation		0,105 mg/m³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Sulphuric acid	Fresh water	0,0025 mg/l
	Sediment	0,002 mg/l
	Marine water	0,00025 mg/l
	Marine sediment	0,002 mg/l
	Sewage treatment plant	8,8 mg/l
Cobalt sulphate	Sewage treatment plant	0,97 mg/l
	Fresh water	0,00134 mg/l
	Marine water	0,0062 mg/l
	Fresh water sediment	25 mg/kg dry weight (d.w.)
	Marine sediment	25 mg/kg dry weight (d.w.)
	Soil	20,78 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures:
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment:

Eye protection
Safety glasses with side-shields conforming to EN166
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection
Impervious clothing.

Respiratory protection
In the case of vapour formation use a respirator with an approved filter.
ABEK-P3-filter

Hand protection
Protective gloves.
Material: Nitrile rubber
Break through time: > 240 min
Glove thickness: 0,38 mm

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	liquid
pH:	< 1
Flash point:	Not applicable. Other information: Does not sustain combustion.
Relative density:	1,02-1,06
Density (at 25°C):	1,02-1,06 g/cm^3

9.2 Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability
Decomposes on heating.
Pressure build-up
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
No decomposition if stored and applied as directed.

10.4 Conditions to avoid

10.5 Incompatible materials
Materials to avoid: Alkali metals
Light metals
Alkaline earth metals

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity:	Acute toxicity estimate: 1.250 mg/kg Method: Calculation method

Components:

phosphoric acid:
Acute oral toxicity: Assessment: No data available

Acute inhalation toxicity: Assessment: No data available

Acute dermal toxicity: Assessment: No data available

Sulphuric acid:
Acute oral toxicity: LD50 (Rat): 2.140 mg/kg

Acute inhalation toxicity: Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity: Assessment: The substance or mixture has no acute dermal toxicity

potassiumtetracyanoaurate(III):
Acute oral toxicity: LD50 (Rat, female): 29 mg/kg

Acute inhalation toxicity: Acute toxicity estimate: 0,051 mg/l
Test atmosphere: dust/mist
Method: Expert judgement

Acute dermal toxicity: Remarks: No data available

Cobalt sulphate:
Acute oral toxicity: LD50 (Rat, male and female): 768 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity: Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: data waiving in REACH dossier

Acute dermal toxicity: LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on read across from structural related substance:
bis(4-oxopent-2-en-2-olate) cobalt dihydrate

Skin corrosion/irritation

Product:
Result: Causes burns.

Remarks: Extremely corrosive and destructive to tissue.

Components:

Sulphuric acid:
Result: Corrosive after 3 minutes or less of exposure
Remarks: data waiving in REACH dossier

Cobalt sulphate:
Assessment: No skin irritation
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Product:
Result: Eye irritation

Remarks: May cause irreversible eye damage.

Components:

Sulphuric acid:
Species: Rabbit
Result: Irreversible effects on the eye.

Cobalt sulphate:
Species: Rabbit
Exposure time: 4 h
Assessment: No eye irritation
Result: Mild eye irritation
GLP: yes

Respiratory or skin sensitisation

Product:
Remarks: May cause sensitisation of susceptible persons by skin contact.

Components:

Cobalt sulphate:
Exposure routes: Inhalation
Species: Humans
Result: The product is a respiratory sensitiser, sub-category 1B.

Exposure routes: Skin contact
Species: Humans
Result: The product is a skin sensitiser, sub-category 1A.

Germ cell mutagenicity

Product:
Genotoxicity in vitro:
Remarks: No data available.

Components:

Cobalt sulphate:
Genotoxicity in vivo:
Test Type: Micronucleus test
Species: Mouse (male and female)
Exposure time: 91d
Dose: <10 mg/m3
Method: OECD Test Guideline 474
Result: negative
Remarks: No significant adverse effects were reported

Carcinogenicity

Product:
Remarks: No data available

Reproductive toxicity

Product:
Effects on fertility:
Remarks: No data available

Components:

Cobalt sulphate:
Effects on fertility:
Species: Rat, male and female
General Toxicity - Parent: 30 mg/kg body weight
Result: Animal testing did not show any effects on fertility.
GLP: yes
Remarks: Based on read across from structural related sub-stance: cobalt dichloride hexahydrate

STOT - single exposure

Product:
Remarks: No data available.

STOT - repeated exposure

Product:
Remarks: No data available.

Repeated dose toxicity

Components:

Sulphuric acid:
Species: Rat, female
LOAEL: 0,0003 mg/l
Application Route: inhalation (vapour)
Method: OECD Test Guideline 412
GLP: yes

Cobalt sulphate:
Species: Rat, male and female
NOAEL: 3 mg/kg
Application Route: Oral
Remarks: Based on read across from structural related substance: cobalt dichloride hexahydrate

Further information

Product:
Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:
Further information
The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment:
2,5 %

Components:

Phosphoric acid:

Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 87 mg/l Exposure time: 96 h Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 105 mg/l Exposure time: 48 h Remarks: Fresh water

Sulphuric acid:

Toxicity to fish:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 16 mg/l Exposure time: 96 h Test Type: static test GLP: no Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Remarks: Fresh water
Toxicity to fish (Chronic toxicity)	NOEC: 0,025 mg/l Exposure time: 65 days Species: Jordanella floridae (flagfish) GLP: no Remarks: Fresh water

Cobalt sulphate:

Toxicity to fish:	LC50 (Pimephales promelas (fathead minnow)): 54,1 mg/l Exposure time: 96 h Test Type: flow-through test Remarks: Fresh water unit expressed as mg metal/l
Toxicity to daphnia and other aquatic invertebrates:	LC50 (Ceriodaphnia dubia (water flea)): 1,71 mg/l Exposure time: 48 h Test Type: static test Remarks: Fresh water unit expressed as mg metal/l Based on read across from structural related substance: cobalt dichloride hexahydrate
Toxicity to algae:	EC50 (Lemna minor (duckweed)): 0,237 mg/l Exposure time: 7 DAYS Remarks: Fresh water EC10 (Lemna minor (duckweed)): 0,0129 mg/l Exposure time: 7 DAYS Remarks: Fresh water
M-Factor (Acute aquatic toxicity):	10
Toxicity to fish (Chronic toxicity):	EC10: 94 mg/l Exposure time: 7 d Species: Pimephales promelas (fathead minnow) Remarks: Fresh water unit expressed as mg metal/kg Based on read across from structural related substance: cobalt dichloride hexahydrate

M-Factor (Acute aquatic toxicity): 10

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential

Components:

Cobalt sulphate:
Bioaccumulation: Bioconcentration factor (BCF): 180 - 4.000

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product: The product should not be allowed to enter drains, water courses or the soil.
Dispose of in accordance with the European Directives on waste and hazardous waste.
In accordance with local and national regulations.
Do not contaminate ponds, waterways or ditches with chemical or used container.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Send to a licensed waste management company.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number
UN2922

14.2 UN proper shipping name

ADN: CORROSIVE LIQUID, TOXIC, N.O.S.
(phosphoric acid, potassiumtetracyanoaurate(III))

ADR: CORROSIVE LIQUID, TOXIC, N.O.S.
(phosphoric acid, potassiumtetracyanoaurate(III))

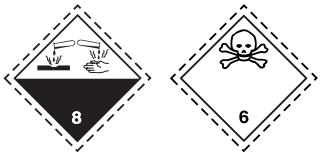
RID: CORROSIVE LIQUID, TOXIC, N.O.S.
(phosphoric acid, potassiumtetracyanoaurate(III))

IMDG: CORROSIVE LIQUID, TOXIC, N.O.S.
(phosphoric acid, potassiumtetracyanoaurate(III))

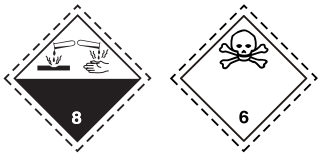
IATA: Corrosive liquid, toxic, n.o.s.
(phosphoric acid, potassiumtetracyanoaurate(III))

14.3 Transport hazard class(es)

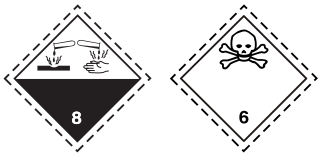
ADN: 8 (6.1)



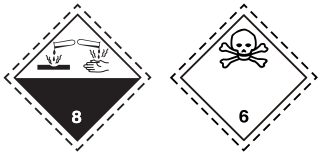
ADR: 8 (6.1)



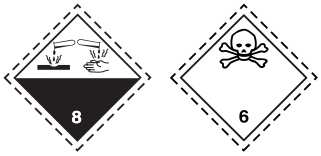
RID: 8 (6.1)



IMDG: 8 (6.1)



IATA: 8 (6.1)



14.4 Packing group

ADN:

Packing group:	II
Classification Code:	CT1
Hazard Identification Number:	86
Labels:	8 (6.1)

ADR:

Packing group:	II
Classification Code:	CT1
Hazard Identification Number:	86
Labels:	8 (6.1)
Tunnel restriction code:	(E)
Limited quantity:	1,00 L

RID:

Packing group:	II
Classification Code:	CT1
Hazard Identification Number:	86
Labels:	8 (6.1)

IMDG:

Packing group:	II
Labels:	8 (6.1)
EmS Code:	F-A, S-B
IMDG segregationcode:	Acids

IATA:

Packing instruction (cargo aircraft):	855
Maximum quantity:	30,00 L
Packing instruction (passenger aircraft):	851
Maximum quantity:	1,00 L
Packing instruction (LQ):	Y840
Packing group:	II
Labels:	Corrosive, Toxic

14.5 Environmental hazards
No.

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59)	:	Cobalt sulphate
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class (Germany):	WGK 2 water endangering Classification according VwVwS, Annex 4.
TA Luft List (Germany):	Total dust: Not applicable Inorganic substances in powdered form: portion Class 2: 0,2 % Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: Not applicable Carcinogenic substances: portion Class 1: 0,2 % Mutagenic: Not applicable Toxic to reproduction: others: 0,2 %
Other regulations:	Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable. Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

CH INV:	On the inventory, or in compliance with the inventory
TSCA:	On TSCA Inventory
DSL:	This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL. potassiumtetracyanoaurate(III)
AICS:	Not in compliance with the inventory
NZIoC:	Not in compliance with the inventory
ENCS:	On the inventory, or in compliance with the inventory
ISHL:	On the inventory, or in compliance with the inventory
KECI:	On the inventory, or in compliance with the inventory
PICCS:	Not in compliance with the inventory
IECSC:	Not in compliance with the inventory

SECTION 16: Other information

Full text of other abbreviations

Acute Tox.:	Acute toxicity
Aquatic Acute:	Acute aquatic toxicity
Aquatic Chronic:	Chronic aquatic toxicity
Carc.:	Carcinogenicity
Eye Dam.:	Serious eye damage
Eye Irrit.:	Eye irritation
Met. Corr.:	Corrosive to metals
Muta.:	Germ cell mutagenicity

Repr.:	Reproductive toxicity
Resp. Sens.:	Respiratory sensitisation
Skin Corr.:	Skin corrosion
Skin Irrit.:	Skin irritation
Skin Sens.:	Skin sensitisation

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Full text of H-Statements

H290	May be corrosive to metals.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350i	May cause cancer by inhalation.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.