

INFORMATIONS CONCERNANT LE FOURNISSEUR DE LA FDS :

Préparation :

Code produit :998 0672Désignation :Bain de cuivrage prêt à l'emploi, 1 litreUtilisation :Galvanic bath

Identification de la Société :

Raison Sociale:	Cookson-CLAL
Adresse siège social :	5 Chemin du Plateau 69570 Dardilly
Telephone:	0800 878 202
E-mail:	<u>qualite@cookson-clal.com</u>

Numéro d'appel d'urgence :

N° ORFILA (INRS) : + 33 (0)1 45 42 59 59 - <u>http://www.centres-antipoison.net</u> Ce numéro permet d'obtenir les coordonnées de tous les centres Antipoison Français. Ces centres antipoison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.



Printing date: 15.12.2022

Version number 11 (replaces version 10)

Revision: 15.12.2022

Page 1/13

SECTION 1: Identification of the substance/mixture and of the compa	ny/undertaking
1.1 Product identifier	
Trade name: <u>Copper plating bath CU 540</u> <u>Kupferbad Cu 540</u>	
Article number: 86953500	
1.2 Relevant identified uses of the substance or mixture and uses advised against Not approved for private consumers.	
Application of the substance / the mixture Galvanic bath	
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Heimerle + Meule GmbH Dennigstrasse 16 D-75179 Pforzheim	
Telefon +49 (0) 7231 940-0 Telefax +49 (0) 7231 940-2199 www.heimerle-meule.com	
Further information obtainable from:	
Abteilung BASU - Bau/Arbeitssicherheit/Umwelt Department BASU - Construction / Occupational Safety / Environment sds@heimerle-meule.com	
IATA - 24h Emergency Contact - IATA - 24h Emergency Contact - (Dangerous goods emergency number) +49 172 739 6970	
1.4 Emergency telephone number:	
DEUTSCHLAND - GERMANY: Vergiftungs-Informations-Zentrale Freiburg, ++49 761 19240 (24 h) (Poisoning Information Center) GREAT BRITAIN:	
National Poisons Information Service +44 121 507 4123 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 - In Scotland: NHS 24 - dial 111 IRELAND	
+353 1 809 2166 (7 Days 8 am -10 pm) Healthcare Professionals: +353 1 809 2566 ITALY:	
Istituto Superiore di Sanità (ISS) +3906499906140 Centro Antiveleni	
Bergamo: +39 800 883300	
Firenze +39 055 794 7819 Milano: +39 055 794 7819	
Roma +39 06 68593726	
Roma +39 06 49978000	
Roma +39 06 3954343 KROATIA - REPUBLIKA HRVATSKA:	
<u>(+385) 01 2348 342</u>	
ESTLAND - ESTONIA:	
Tervisemeti Mürgistusteabekeskuse	
National (24/7): 16662	
(+372) 7943 794 LETTLAND - LATVIA:	
<u>LETTLAND - LATVIA.</u> Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs,	
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Printing date: 15.12.2022

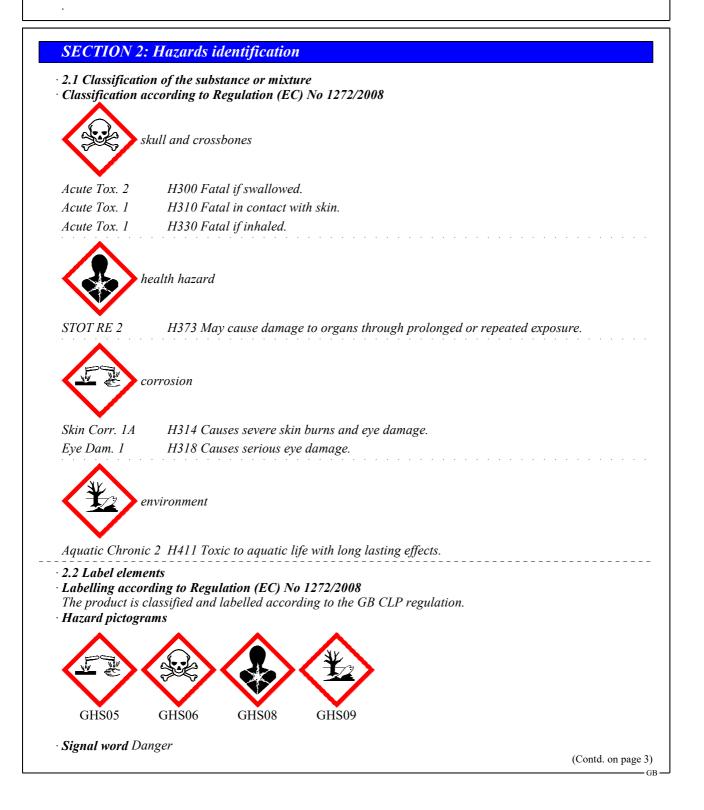
Version number 11 (replaces version 10)

Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

(Contd. of page 1)

(24h) 112 (24h) +371 67042473 <u>LITAUEN - LIETUVOS RESPUBLIKA:</u> Poison Information Bureau (24/7), Tel.: +8 5 236 20 52 Apsinuodijimų informacijos biuras



Printing date: 15.12.2022

Version number 11 (replaces version 10)



Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

	(Contd. of page 2)
· Hazard-determini	ng components of labelling:
Potassium cyanide	
copper cyanide	
· Hazard statements	5
	0 Fatal if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
· Precautionary stat	
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water [or shower].
P305+P351+P338	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Additional inform	ation:
EUH032 Contact v	vith acids liberates very toxic gas.
· 2.3 Other hazards	
· Results of PBT an	d vPvB assessment
• PBT: Not applicab	
• vPvB: Not applicat	ble.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components / Information on ingredients:		
CAS: 151-50-8	Potassium cyanide	2.5-7%
EINECS: 205-792-3 Index number: 006-007-00-5		
Reg.nr.: 01-2119486407-29-xxxx	Met. Corr.1, H290 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 EUH032	
CAS: 544-92-3 EINECS: 208-883-6 RTECS: GL 7150000	copper cyanide Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 EUH032	2.5-7%
CAS: 584-08-7 EINECS: 209-529-3 RTECS: TS 7750000	potassium carbonate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-7%

• 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:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

(Contd. on page 4)

GB



Revision: 15.12.2022

Printing date: 15.12.2022

Version number 11 (replaces version 10)

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

	(Contd. of page 3
In case of irregular breathing or respiratory arrest provide artificial respiration.	
Personal protection for the First Aider.	
Take affected persons out of danger area and lay down.	
Involve doctor immediately after a accident or unwell	
After inhalation:	
Supply fresh air or oxygen; call for doctor.	
<i>In case of unconsciousness place patient stably in side position for transportation.</i>	
After skin contact:	
Immediately wash with water and soap and rinse thoroughly.	
If skin irritation continues, consult a doctor.	
After eye contact: Rinse opened eye for several minutes under running water. The	n consult a doctor.
After swallowing:	
Call a doctor immediately.	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; call for medical help immediately.	
Drink plenty of water and provide fresh air. Call for a doctor immediately.	
<i>A person vomiting while laying on their back should be turned onto their side.</i>	
Information for doctor: Cyanides poisoning	
4.2 Most important symptoms and effects, both acute and delayed	
Cyanides poisoning	
Cyanosis	
4.3 Indication of any immediate medical attention and special treatment needed	
No further relevant information available.	

Formation of very toxic gases is possible during heating or in case of fire. Hydrogen cyanide (HCN)

- 5.3 Advice for firefighters
- · Protective equipment:

Mount respiratory protective device.



Wear self-contained respiratory protective device.

• Additional information

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

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- Use respiratory protective device against the effects of fumes/dust/aerosol.

Only handle and refill product in closed systems.

· 6.2 Environmental precautions:

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

(Contd. on page 5)



Revision: 15.12.2022

Printing date: 15.12.2022

Version number 11 (replaces version 10)

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

(Contd. of page 4)

Do not allow to enter sewers/ surface or ground water. • 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. Ensure adequate ventilation.

• 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

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

he usual precautionary measures are to be adhered to when handling chemicals.

Prevent formation of aerosols.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

• Information about fire - and explosion protection: Keep respiratory protective device available.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• *Requirements to be met by storerooms and receptacles:* Observe official regulations on storing packagings. Observe official regulations on storing packagings. Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Do not store together with acids. Store away from foodstuffs. • Further information about storage conditions:

Keep container tightly sealed.



Store under lock and key and with access restricted to technical experts or their assistants only.

Store under lock and key and out of the reach of children.

· Storage class: 6.1 B

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

CAS: 151-50-8 Potassium cyanide

WEL (Great Britain)	Short-term value: 5 mg/m³ Long-term value: 1 mg/m³ Sk, as CN
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(Contd. on page 6)

GB



Printing date: 15.12.2022

Version number 11 (replaces version 10)

Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

IOELV (European Union) Short-term value: 5 mg/m ³ (Contd. of page
	Long-term value: 1 mg/m ³ Skin; as cyanide
AGW (Germany)	Long-term value: 1 E mg/m ³ 5(II);EU, H, Y
CAS: 544-92-3 copper cy	anide
WEL (Great Britain)	Long-term value: 5 mg/m ³ as CN; Sk
MAK (Germany)	Long-term value: 2E mg/m ³ als CN
Regulatory information	
WEL (Great Britain): EH	40/2020
IOELV (European Union)): (EU) 2019/1831
AGW (Germany): TRGS	200
MAK (Germany): MAK-	Ind BAT-Liste
	The lists valid during the making were used as basis.
·	0 0
8.2 Exposure controls	
	controls No further data; see item 7.
	asures, such as personal protective equipment
General protective and h	
	measures are to be adhered to when handling chemicals.
Keep away from foodstuff	
	oiled and contaminated clothing
Wash hands before break	
<i>Store protective clothing</i>	separately.
Do not inhale gases / fum	es / aerosols.
Avoid contact with the ey	es.
Avoid contact with the ey	es and skin.
According to EC Directiv	
Respiratory protection:	
	protective device when high concentrations are present.
	or low pollution use respiratory filter device. In case of intensive or longer exposu
Beware: Filter masks p	rovide protection for a short period of time only. They should only be used if a small amount of the substance has spilled out or in order to fight spillages an
fire.	5
according EN 14387	
according to EN 143	
0	ce for short term use: Combination filter B-P2
Hand protection	
db	
MP Protective	gloves
according to EN 374	
To avoid skin problems re	educe the wearing of gloves to the required minimum.
Only use chemical-protect	tive gloves with CE-labelling of category III.
	ponents in the glove materials is possible.
	rior to each anewed use of the glove.
	<i>be impermeable and resistant to the product/ the substance/ the preparation.</i> (Contd. on page

Printing date: 15.12.2022

Version number 11 (replaces version 10)



Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

(Contd. of page 6) Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Prior to working with gloves the rubbing in with tanniferous skin-protecting agents for the avoidance of skin softening due to perspiration is recommended. · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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. Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.4 mm · Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 3). *Value for the permeation: Level* ≤ 3 • Not suitable are gloves made of the following materials: Leather gloves Strong material gloves · Eye/face protection Tightly sealed goggles according to EN 166 **Body protection:** Protective work clothing **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: Colourless · Odour: Like bitter almonds · Odour threshold: Not determined. • *Melting point/freezing point:* Undetermined. · Boiling point or initial boiling point and boiling 100°C (212°F) range · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point:

· Decomposition temperature: • *pH at 20°C (68°F)*

- · Viscosity:
- · Kinematic viscosity

Dynamic:

Not applicable.

Not determined. 11.6

Not determined. Not determined.

(Contd. on page 8)



Printing date: 15.12.2022

Version number 11 (replaces version 10)

Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

	(Contd. of page 7	
Solubility		
water:	Fully miscible.	
• Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure at 20°C (68°F):	23 hPa (17.3 mm Hg)	
Density and/or relative density		
Density at 20°C (68°F):	1.1 g/cm ³ (9.18 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
9.2 Other information		
Appearance:		
Form:	Fluid	
Important information on protection of health an	d	
environment, and on safety.		
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard classe	25	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable		
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

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 Contact with acids releases very toxic gases

Reacts with acids, alkalis and oxidising agents. • 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: Acids

· 10.6 Hazardous decomposition products: Hydrogen cyanide (prussic acid)

(Contd. on page 9)

Printing date: 15.12.2022

Version number 11 (replaces version 10)



Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

	Acute toxicity Fatal if swallowed, in contact with skin or if inhaled. LD/LC50 values relevant for classification:	
		Estimates)
Oral	LD50	50 mg/kg
Dermal	LD50	50 mg/kg
Inhalative	LC50/4 h	0.0781 mg/l
CAS: 151-	50-8 Potas	ssium cyanide
Oral	LD50	5 mg/kg (Rat)
Dermal	LD50	5 mg/kg (ATE)
Inhalative	LC50/4 h	0.005 mg/l (ATE)
CAS: 544-	92-3 copp	er cyanide
Oral	LD50	5 mg/kg (ATE)
Dermal	LD50	5 mg/kg (ATE)
Inhalative	LC50/4 h	0.05 mg/l (ATE)
Skin corro	sion/irrita	tion Causes severe skin burns and eye damage.
Serious ey	e damage/	irritation Causes serious eye damage.
-	-	sure May cause damage to organs through prolonged or repeated exposure.
11.2 Infor	mation on	other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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.
- · 12.5 Results of PBT and vPvB assessment Not applicable.
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- Additional ecological information:

· General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

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

Also poisonous for fish and plankton in water bodies.

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Toxic for aquatic organisms

(Contd. on page 10)

GE

Version number 11 (replaces version 10)

Page 10/13

Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

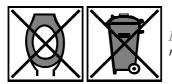
(Contd. of page 9)

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Printing date: 15.12.2022



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

Contact manufacturer for recycling information.

· Waste disposal key:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packaging which is uncleaned or soiled with product remains is to be treated like the product itself Packaging free of product remains is to be supplied refuse for recycling. Only if no adequate collecting system is available, they may be disposed of through the domestic rubbish

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3287
· 14.2 UN proper shipping name	
· ADR	UN3287 TOXIC LIQUID, INORGANIC, N.C (POTASSIUM CYANIDE, COPPER CYANID ENVIRONMENTALLY HAZARDOUS
· IMDG	TOXIC LIQUID, INORGANIC, N.O.S. (POTASSI CYANIDE, COPPER CYANIDE), MARI POLLUTANT
· IATA	TOXIC LIQUID, INORGANIC, N.O.S. (POTASSI CYANIDE, COPPER CYANIDE)
· 14.3 Transport hazard class(es)	
· ADR, IMDG	
· Class	6.1 Toxic substances.
· Label	6.1



Printing date: 15.12.2022

Version number 11 (replaces version 10)

Revision: 15.12.2022

GB

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

	(Contd. of page
IATA	
8 8	
Class	6.1 Toxic substances.
Label	6.1
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	Yes
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code): Segregation groups Stowage Category Stowage Code	Warning: Toxic substances. 60 (SGG6) Cyanides B SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IM instruments	<i>IO</i> Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category	100 ml Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml 2
IMDG Limited quantities (LQ) Excepted quantities (EQ)	100 ml Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
IATA Remarks:	24h emergency contact - (Dangerous goods emergency number)
	+49 172 739 6970
UN "Model Regulation":	UN 3287 TOXIC LIQUID, INORGANIC, N.O., (POTASSIUM CYANIDE, COPPER CYANIDE), 6.1, 1 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article (Contd. on page 12)



Printing date: 15.12.2022

Version number 11 (replaces version 10)

Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

16(1) of Directive 89/391/EEC)

(Contd. of page 11)

DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

GADSL - Global Automotive Declarable Substance List

None of the ingredients is listed.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- H1 ACUTE TOXIC

E2 Hazardous to the Aquatic Environment

- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 20 t

· National regulations:

• Technical instructions (air):

ClassShare in %III4.0

· Waterhazard class: .

- · Other regulations, limitations and prohibitive regulations -
- 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.

· Reasons for revise

If necessary, this saftey data sheet can revised according to legal guidelines.

Our current version for your reference is available on our website www.heimerle-meule.com

· Relevant phrases

- H290 May be corrosive to metals.
- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H335 May cause respiratory irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- *H410 Very toxic to aquatic life with long lasting effects.*

EUH032 Contact with acids liberates very toxic gas.

· Department issuing SDS:

Abteilung BASU - Bau/Arbeitssicherheit/Umwelt Department BASU - Construction / Occupational Safety / Environment

sds@heimerle-meule.com

(Contd. on page 13)

GB

Printing date: 15.12.2022

Version number 11 (replaces version 10)



Revision: 15.12.2022

Trade name: Copper plating bath CU 540 Kupferbad Cu 540

(Contd. of page 12) · Contact: Herr Thomas Knuth thomas.knuth@heimerle-meule.com sds@heimerle-meule.com · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation AwSV: Ordinance on facilities for handling water-polluting substances (German regulation). TRGS: Technical rules for hazardous substances (German regulation) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 1: Acute toxicity - Category 1 Acute Tox. 2: Acute toxicity - Category 2 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 • * Data compared to the previous version altered.