



*Printing date: 20.12.2022* 

\*

Version number 10 (replaces version 9)

Revision: 20.12.2022

1.1 Product identifier	
Trade name: <u>Regenerating solution R3</u> Regenerierloesung R3	
Article number: 86938372	
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> Not approved for private consumers.	
Application of the substance / the mixture	
Electroplating auxiliary	
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:	
sds@heimerle-meule.com IATA - 24h Emergency Contact - IATA - 24h Emergency Contact - (Dangerous goods emergency number) +49 172 739 6970 1 A Emergency telephone number:	
<b>1.4 Emergency telephone number:</b> 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 <u>ITALY:</u>	
Istituto Superiore di Sanità (ISS) +3906499906140 Centro Antiveleni Bergamo: +39 800 883300 Firmane + 20 055 704 7810	
Firenze +39 055 794 7819 Milano: +39 055 794 7819 Roma +39 06 68593726	
Roma +39 06 49978000 Roma +39 06 3954343 <u>KROATIA - REPUBLIKA HRVATSKA:</u> (+385) 01 2348 342	
ESTLAND - ESTONIA: Tervisemeti Mürgistusteabekeskuse National (24/7): 16662	
(+372) 7943 794	



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<u>LETTLAND - LATVIA:</u> Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs, (24h) 112 (24h) +371 67042473 <u>LITAUEN - LIETUVOS RESPUBLIKA:</u> Poison Information Bureau (24/7), Tel.: +8 5 236 20 52 Apsinuodijimų informacijos biuras

SECTION 2: 1	Hazards identification
	n of the substance or mixture
· Classification ac	cording to Regulation (EC) No 1272/2008
Set ski	ull and crossbones
Acute Tox. 2	H300 Fatal if swallowed.
Acute Tox. 1	H310 Fatal in contact with skin.
Acute Tox. 2	H330 Fatal if inhaled.
FT CO	rrosion
Eye Dam. 1	H318 Causes serious eye damage.
₩ <sup>1</sup> <sup>2</sup> en	vironment
-	H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects.
Aqualle Chronic	1 11410 Very loxic to aqualic life with long lasting effects.
Skin Irrit. 2	H315 Causes skin irritation.
· 2.2 Label elemen	
	ing to Regulation (EC) No 1272/2008
The product is clo	assified and labelled according to the GB CLP regulation. (Contd. on page 3

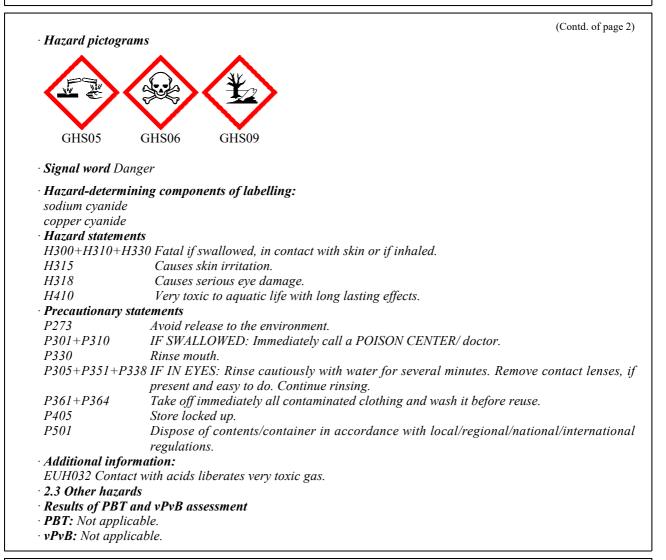


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# **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

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

· Dangerous components / Information on ingredients:		
CAS: 143-33-9 EINECS: 205-599-4 Index number: 006-007-00-5	sodium cyanide; Sodium cyanide 96/98 % Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315 EUH032	≥10-<25%
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	≥10-<25%
• Additional information: For	the wording of the listed hazard phrases refer to section 16.	6

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# **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. 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. In case of unconsciousness place patient stably in side position for transportation. • After skin contact: Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water. If skin irritation continues, consult a doctor. • After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: 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. A person vomiting while laying on their back should be turned onto their side. · 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.

# **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

*In case of fire, the following can be released: 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.

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# **SECTION 6:** Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. 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: 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. Dilute with plenty of water. 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:
Provide alkali-resistant floor.
Store only in unopened original 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:

 $\overline{D}o$  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.

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• 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: 143-33-9 sodium o		
WEL (Great Britain)	Short-term value: 5 mg/m <sup>3</sup>	
() <u>22</u> (0.000 <u>2</u> .0000)	Long-term value: 1 mg/m <sup>3</sup>	
	Sk, as CN	
IOELV (European Unior		
IOELV (European Onior	Long-term value: 1 mg/m <sup>3</sup>	
	Skin; as cyanide	
ACW(C)		
AGW (Germany)	Long-term value: 1 E mg/m <sup>3</sup> 5(II);EU, H, Y	
CAS: 544-92-3 copper c	yanide	
WEL (Great Britain)	Long-term value: $5 \text{ mg/m}^3$	
	as CN; Sk	
MAK (Germany)	Long-term value: 2E mg/m <sup>3</sup>	
mini (Germany)	als CN	
Regulatory information		—
WEL (Great Britain): EF	470/2020	
IOELV (European Unior		
AGW (Germany): TRGS		
MAK (Germany): MAK-		
Additional information:	The lists valid during the making were used as basis.	
8.2 Exposure controls		
	<b>g controls</b> No further data; see item 7.	
	easures, such as personal protective equipment	
General protective and l		
	measures are to be adhered to when handling chemicals.	
Keep away from foodstu		
	soiled and contaminated clothing	
	ks and at the end of work.	
Store protective clothing		
Do not inhale gases / fun		
Avoid contact with the sk		
Avoid contact with the ey		
According to EC Directive 89/686/EEC		
Respiratory protection:	e or low pollution use respiratory filter device. In case of intensive or longer exp	
		su
use self-contained respir		1
	provide protection for a short period of time only. They should only be us	
	s if a small amount of the substance has spilled out or in order to fight spillage.	ar
fire.		
according EN 14387		
according to EN 143		
Recommended filter dev	vice for short term use: Filter P3	
	(Contd. on r	a a a '

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Boiling point or initial boiling point and boiling	
range	100°C (212°F)
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20°C (68°F)	10
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
	1voi ueiei mineu.
Density and/or relative density	$1.22  a/am^3 (10.19  lbs/cal)$
Density at 20°C (68°F):	1.22 g/cm <sup>3</sup> (10.18 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	20
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
	Void
Gases under pressure	
Flammable liquids	Void Void
Flammable solids	Void V-:-
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
	$V_{-}$ : 1
	Void
Organic peroxides Corrosive to metals	Vola Void

# SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

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· 10.2 Chemical stability

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored 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)

# **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:

ATE (Acu	te Toxicity	Estimates)
Oral	LD50	16.8 mg/kg
		18.4 mg/kg
Inhalative	LC50/4 h	0.146 mg/l

#### CAS: 143-33-9 sodium cyanide

0/10/1/15	55 7 50uu	m cyuniuc
Oral		6.4 mg/kg (Rat)
		0.7 mg/kg (Human)
	LD Lo	2.8 mg/kg (Human)
Dermal	LD50	7.7 mg/kg (Kanninchen)
Inhalative		0.05 mg/l (ATE)

CAS: 544-92-3 copper cyanide

OralLD505 mg/kg (ATE)DermalLD505 mg/kg (ATE)InhalativeLC50/4 h0.05 mg/l (ATE)

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye damage.

• 11.2 Information 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: Very toxic for fish

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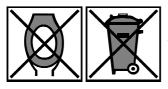
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- Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation



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

Contact manufacturer for recycling information.

• Waste disposal key:

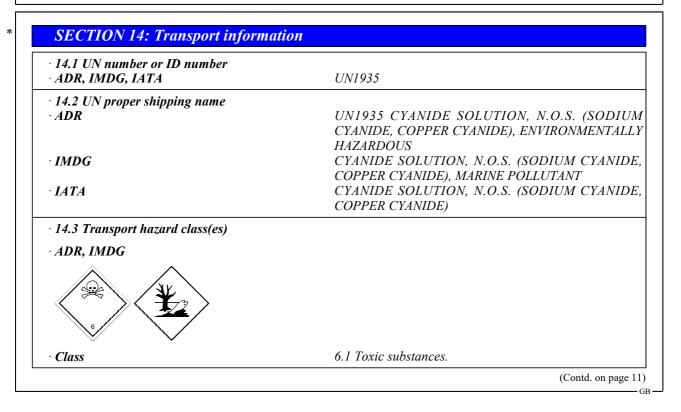
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

- · 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.





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Label	6.1
Class	6.1 Toxic substances.
Label	6.1 6.1
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	Yes
··· r	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Toxic substances.
Hazard identification number (Kemler code):	60
EMS Number:	F-A,S-A
Segregation groups	(SGG6) Cyanides
Stowage Category	A SW2 Clean of living quantang
Stowage Code Segregation Code	SW2 Clear of living quarters. SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	-
ADR	
Limited quantities (LQ)	100 ml
Excepted quantities $(EQ)$	Code: E4
	Maximum net quantity per inner packaging: 1 ml
<b>—</b>	Maximum net quantity per outer packaging: 500 ml
Transport category	2
IMDG	
Limited quantities (LQ)	100 ml
Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
ΙΑΤΑ	
Remarks:	
	24h emergency contact -
	(Dangerous goods emergency number)
	+49 172 739 6970
UN "Model Regulation":	UN 1935 CYANIDE SOLUTION, N.O.S. (SODIU
-	CYANIDE, COPPER CYANIDE), 6.1, 1

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

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

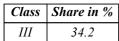
H1 ACUTE TOXIC

El Hazardous to the Aquatic Environment

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

· National regulations:

• Technical instructions (air):



· 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

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

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

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sds@heimerle-meule.com 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 th International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO-II: Technical Instructions by the "International Civil Aviation Organisation" (IATA) ICAO-II: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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 th International Carritage of Dangerous Goods by Rad) 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 CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LCS0: Lethal concentration, 50 percent DS7: Lethal concentration, 50 percent DS7: Lethal codes, 70 percent PB7: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccimulative Acute Tox, 1: Acute toxicity – Category 1 Acute Tox, 2: Acute toxicity – Category 2 Eye Dam, 1: Serious eye damage/eye irritation – Category 1 Aguatic 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 Aguatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	(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 th 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) AwSV: Ordinance on facilities for handling water-polluting substances (German regulation). TRGS: Technical rules for hazardous substances (German regulation). TRGS: Technical rules for hazardous 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 th International Carriage of Dangerous Goods by Rad) IMDG: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINECS: European List of Notified Chemical Substances ELINECS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent DBT: Persistent, Bioaccumulative and Toxic vPAB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity – Category 1 Acute Tox. 2: Acute toxicity – Category 2 See Dam, 1: Serious eye damage/eye irritation – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	sds@heimerle-meule.com
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 th 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: International Civil Aviation Organisation ICAO: Trechnical Instructions by the "International Civil Aviation Organisation" (ICAO) AwSV: Ordinance on facilities for handling water-polluting substances (German regulation). TRGS: Technical Instructions by the "International des marchandises dangereuses par route (European Agreement Concerning th 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 Inventory of Existing Commercial Chemical Substances ELINCS: European Ist of Notified Chemical Substances ELINCS: Lethal concentration, 50 percent LD30: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 1: Acute toxicity – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 1 Aquatic Chronic 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	
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