

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

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

· **1.1 Product identifier**

· **Trade name:** Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

· **Article number:**

86909400

81020429

· **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-Informationen-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 Antiveneni

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:

(+385) 01 2348 342

ESTLAND - ESTONIA:

Tervisemeti Mürgistusteabekeskuse

National (24/7): 16662

(+372) 7943 794

LETTLAND - LATVIA:

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 1)

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

SECTION 2: Hazards identification

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



skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.
Acute Tox. 1 H310 Fatal in contact with skin.
Acute Tox. 1 H330 Fatal if inhaled.



health hazard

STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure.



corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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



GHS05



GHS06



GHS08



GHS09

- Signal word *Danger*

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 2)

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

Potassium cyanide
 potassium dicyanoargentate
 potassium carbonate

· **Hazard statements**

H300+H310+H330 *Fatal if swallowed, in contact with skin or if inhaled.*
 H314 *Causes severe skin burns and eye damage.*
 H372 *Causes damage to the thyroid through prolonged or repeated exposure.*
 H411 *Toxic to aquatic life with long lasting effects.*

· **Precautionary statements**

P273 *Avoid release to the environment.*
 P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
 P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
 P305+P351+P338 *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 information:**

EUH032 *Contact with acids liberates very toxic gas.*

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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 EINECS: 205-792-3 Index number: 006-007-00-5 Reg.nr.: 01-2119486407-29-xxxx	Potassium cyanide Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1, H330 STOT RE 1, H372 Met. Corr.1, H290 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 EUH032	10-25%
CAS: 506-61-6 Reg.nr.: 01-2120753799-33-0001	potassium dicyanoargentate Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 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.

GB

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 3)

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.

Do not use mouth to mouth or mouth to nose resuscitation.

Use a respiratory bag or breathing device.

· **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:**

Do not induce vomiting; call for medical help immediately.

Call a doctor 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.

Rinse out mouth and then drink plenty of water.

· **Information for doctor:** Cyanides poisoning

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

Cyanides poisoning

Cyanosis

· **Hazards** Danger of gastric perforation.

· **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.

CO₂, powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

Ammonia (NH₃)

Hydrogen cyanide (HCN)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Mount respiratory protective device.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 4)



Wear self-contained respiratory protective device.

Beware: Filter masks provide protection for a short period of time only. They should only be used in exceptional cases, that is if a small amount of the substance has spilled out or in order to fight spillages and fire

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

Mount respiratory protective device with combination filter B / P3

Ensure adequate ventilation

Keep people at a distance and stay on the windward side.

Remove persons from danger area.

Wear protective clothing.

6.2 Environmental precautions:

Keep contaminated washing water and dispose of appropriately.

Do not allow to penetrate the ground/soil.

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

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

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

6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable receptacles.

Absorb with liquid-binding material (sand, kieselguhr, acid binder, universal binder).

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

Carry out filling operations only at sites with extractors available.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

The 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.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 5)

· **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

IOELV (European Union)

Short-term value: 5 mg/m³

Long-term value: 1 mg/m³

Skin; as cyanide

AGW (Germany)

Long-term value: 1 E mg/m³

5(II);EU, H, Y

CAS: 506-61-6 potassium dicyanoargentate

AGW (Germany)

Long-term value: 0.01E mg/m³

2(I);DFG,EU,10

· **Regulatory information**

WEL (Great Britain): EH40/2020

IOELV (European Union): (EU) 2019/1831

AGW (Germany): TRGS 900

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 6)

According to EC Directive 89/686/EEC

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Beware: Filter masks provide protection for a short period of time only. They should only be used in exceptional cases, that is if a small amount of the substance has spilled out or in order to fight spillages and fire.

according to EN 14387

according to EN 143

· **Hand protection**



Protective gloves

according to EN 374

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labelling of category III.

Sensibilisation by the components in the glove materials is possible.

Check the permeability prior to each renewed use of the glove.

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

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.

Chloroprene rubber, CR

Recommended thickness of the material: ≥ 0.65 mm

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 1.5 mm

· **Penetration time of glove material**

The exact break through 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

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 7)

· **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:	Light brown
· Odour:	Like bitter almonds
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	Undetermined.
· 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)	13
· 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.
· Density and/or relative density	
· Density at 20°C (68°F):	1.25 g/cm ³ (10.43 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	0.00 %
· Form:	Fluid
· Important information on protection of health and 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 classes

· 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

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 8)

- | | |
|--|------|
| · 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** Reacts with acids, alkalis and oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **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 (Acute Toxicity Estimates)

Oral	LD50	25.5 mg/kg
Dermal	LD50	34.2 mg/kg
Inhalative	LC50/4 h	0.0365 mg/l

CAS: 151-50-8 Potassium cyanide

Oral	LD50	5 mg/kg (Rat)
Dermal	LD50	5 mg/kg (ATE)
Inhalative	LC50/4 h	0.005 mg/l (ATE)

CAS: 506-61-6 potassium dicyanoargentate

Oral	LD50	5 mg/kg (ATE)
Dermal	LD50	20.9 mg/kg (Rat)
Inhalative	LC50/4 h	0.05 mg/l (ATE)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **STOT-repeated exposure** Causes damage to the thyroid through prolonged or repeated exposure.
- **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.

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

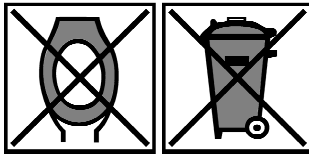
Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 9)

- **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
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.
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.

SECTION 14: Transport information

- | | |
|---------------------------------------|--|
| · 14.1 UN number or ID number | |
| · ADR, IMDG, IATA | UN1935 |
| · 14.2 UN proper shipping name | |
| · ADR | UN1935 CYANIDE SOLUTION, N.O.S. (POTASSIUM CYANIDE, potassium dicyanoargentate), ENVIRONMENTALLY HAZARDOUS |
| · IMDG | CYANIDE SOLUTION, N.O.S. (POTASSIUM CYANIDE, potassium dicyanoargentate), MARINE POLLUTANT |
| · IATA | CYANIDE SOLUTION, N.O.S. (POTASSIUM CYANIDE, potassium dicyanoargentate) |

(Contd. on page 11)

Safety data sheet
according to 1907/2006/EC, Article 31

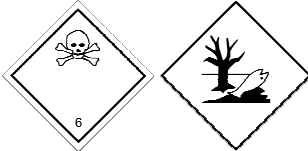
Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 10)

· **14.3 Transport hazard class(es)**· **ADR, IMDG**

· **Class** 6.1 Toxic substances.
· **Label** 6.1

· **IATA**

· **Class** 6.1 Toxic substances.
· **Label** 6.1

· **14.4 Packing group**· **ADR, IMDG, IATA** II· **14.5 Environmental hazards:**

· **Marine pollutant:** Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user**

· **Hazard identification number (Kemler code):** 60
· **EMS Number:** F-A,S-A
· **Segregation groups** (SGG6) Cyanides
· **Stowage Category** A
· **Stowage Code** SW2 Clear of living quarters.
· **Segregation Code** SG35 Stow "separated from" SGG1-acids

· **14.7 Maritime transport in bulk according to IMO 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
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

· **IATA**· **Remarks:**

24h emergency contact -
(Dangerous goods emergency number)

(Contd. on page 12)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 11)

.	+49 172 739 6970
· UN "Model Regulation":	UN 1935 CYANIDE SOLUTION, N.O.S. (POTASSIUM CYANIDE, POTASSIUM DICYANOARGENTATE), 6.1, II, 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 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

E2 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):**

Class	Share in %
I	6.5

· **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 safety data sheet can be 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.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

(Contd. on page 13)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 14.12.2022

Version number 14 (replaces version 13)

Revision: 14.12.2022

Trade name: Silver plating bath SCANDIA 360, 36 g Ag/l
Glanzsilberbad SCANDIA 360, 36 g Ag/l

(Contd. of page 12)

- H318 Causes serious eye damage.
 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

· **Contact:**

Herr Thomas Knuth
 thomas.knuth@heimerle-meule.com
 sds@heimerle-meule.com

· **Abbreviations and acronyms:**

- 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
 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.**