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SECTION 1: Identification of the substance/mixture and of the company. undertaking · 1.1 Product identifier · Trade name: Silberharz · UFI: NGNU-040K-3000-T82G · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the preparation: EuPCS: PC-TEC-OTH other products for chemical or technical processes not already covered Water softeners · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Gebrüder Heyl Phone +49 (0) 5121 2893390 Analysentechnik GmbH & Co. KG Fax +49 (0) 5121 2893367 Orleansstraße 75 b E-mail info@heylanalysis.de D-31135 Hildesheim Internet www.heylanalysis.de · Further information obtainable from: product safety department · 1.4 Emergency telephone number: Giftinformationszentrum Nord Phone +49 (0) 551 19240 SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:
- EUH210 Safety data sheet available on request.
- · Labelling of packages where the contents do not exceed 125 ml
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- Description:
- Mixture of substances listed below with nonhazardous additions according to Regulation (EC) No 1272/2008.

Polymer CAS 69011-22-9

 Dangerous comport 	1ents:		
CAS: 7440-22-4 EINECS: 231-131-3	silver	substance with a Community workplace exposure limit	2.5 – 10%
• SVHC Not applicable	9.	(Cor	ntd on page 2)



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· 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.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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. If symptoms persist, consult a doctor. · After swallowing:
- A person vomiting while laying on their back should be turned onto their side. Rinse out mouth and then drink plenty of water. Seek medical treatment.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear personal protection equipment. Avoid formation of dust. Particular danger of slipping on leaked/spilled product.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

Dispose of the material collected according to regulations. Clean the affected area carefully; suitable cleaners are: Warm water and cleansing agent

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

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
- Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

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

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- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep container tightly sealed. Protect from heat and direct sunlight. Protect from exposure to the light. Store receptacle in a well ventilated area. Prevent from drying out.

· Recommended storage temperature: 15 - 25 °C

Storage class:

Storage class 11: Combustible solids that cannot be assigned to any other storage class (TRGS 510)

· 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: 7440-22-4 silver
- AGW (Germany) Long-term value: 0.1 E mg/m³

8(II);DFG, EU

· Regulatory information 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 section 7.

- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

· Respiratory protection:

Use suitable respiratory protective device when high concentrations are present.

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.

Short term filter device:

Filter P2

· Hand protection

Wear gloves according to EN 374.

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 dearadation

Check protective gloves prior to each use for their proper condition.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

• 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.

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.

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• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: $\geq 0.12 \text{ mm}$ Value for the permeation: Level = 6 (> 480 min) • As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: $\geq 0.12 \text{ mm}$ Value for the permeation: Level = 6 (> 480 min) · Body protection: Protective work clothing SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Physical state Solid · Colour: Grey · Odour: Odourless · Odour threshold: Not determined. · Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range Undetermined. · Flammability Not determined. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: Undetermined. · Auto-ignition temperature: Not determined. · Decomposition temperature: Not determined. · pH at 20 °C neutral · Viscosity: · Kinematic viscosity Not applicable. · Dynamic: Not applicable. · Solubility · water: Insoluble. · Partition coefficient n-octanol/water (log Not determined. value) · Vapour pressure: Not applicable. · Density and/or relative density · Density at 20 °C: 1.3 q/cm³ · Relative density Not determined. · Vapour density Not applicable. · Particle characteristics See section 3. · 9.2 Other information · Important information on protection of health and environment, and on safety. Product is not selfianitina. · Ignition temperature: · Explosive properties: Product does not present an explosion hazard.

· Solvent content: · VOCV (CH) 0.0 % · Information with regard to physical hazard classes · Explosives Void · Flammable gases Void · Aerosols Void

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		(Contd. of page
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. To avoid thermal decomposition do not overheat.

· 10.3 Possibility of hazardous reactions Reacts with strong acids. Reacts with oxidising agents. Reacts with peroxides.

• **10.4 Conditions to avoid** No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification: CAS: 7440-22-4 silver > 2,000 mg/kg (rat) Oral LD50 Inhalative LC50/4 h 5.19 mg/l (rat) • Skin corrosion/irritation Based on available data, the classification criteria are not met. • Serious eye damage/irritation Based on available data, the classification criteria are not met. • Respiratory or skin sensitisation Based on available data, the classification criteria are not met. · Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. · Reproductive toxicity Based on available data, the classification criteria are not met. • STOT-single exposure Based on available data, the classification criteria are not met. • STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met. · 11.2 Information on other hazards Endocrine disrupting properties

None of the ingredients is listed.

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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
- · 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
- · Additional ecological information:
- · General notes:

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

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- · Uncleaned packaging:
- Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk accordin IMO instruments 	ng to Not applicable.
• Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

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SECTION 15: Regulatory information
[.] 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 Directive 2012/18/EU Mamed dangerous substances - ANNEX I None of the ingredients is listed.
• REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)
None of the ingredients is listed.
· Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals
None of the ingredients is listed.
• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.
· REGULATION (EU) 2019/1148
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of
licensing under Article 5(3))
None of the ingredients is listed.
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
· Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.
 REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone- depleting potential)
None of the ingredients is listed.
· National regulations:
 Information about limitation of use: Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.
• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
• Other regulations, limitations and prohibitive regulations • Substances of very high concern (SVHC) according to REACH, Article 57
None of the ingredients is listed.

None of the ingredients is listed.

· 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. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS: product safety department

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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)



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(Contd. of page 7) ICAO: International Civil Aviation Organisation 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) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative • * Data compared to the previous version altered.

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