

Date of issue: 25.01.2019; Replaces Data Sheet of: 24.02.2016
 "" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



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

- 1.1 **Product identifier**
Trade Name: Silvernet
Article No.: STSN-40; STSN-100; STSN-200; VS-STSN-40; VS-STSN-100
Preparation No.: n.av.
Registration No.: n.ap.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 Identified uses: Biocidal product
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**
 WM aquatec GmbH & Co. KG, Uracher Str. 22, DE-73268 Erkenbrechtsweiler
 Telephone: 49 – 7026 – 93 210 90, Telefax: 49 – 7026 – 93 210 98; E-Mail: info@wm-aquatec.de
- 1.3.2 **Responsible for the data sheet:**
 CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 Marburg, info@cosichem.de
- 1.4 **Emergency telephone number**
 Emergency - Telephone of Company / Undertaking **Information Centre Specialising in Symptoms of Poisoning**
 Telephone: +49 – 7158 – 983 88 44 (8.30 – 16:00) Telephone: +44 870 600 6266

SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**
Classification and labelling according to Directive 1272/2008/EC:
 Aquatic Acute 1; H400 / Aquatic Chronic 1; H410
- 2.2 **Label elements**
 Classification according to 1272/2008/EC: Yes.
 Applicable Exemptions: Yes.
 Signal word(s): Warning
 Component(s):
H - Phrases:
 H410: Very toxic to aquatic life with long lasting effects.
P - Phrases:
 P273: Avoid release to the environment.
 Additional Markings: None.
 The above mentioned labelling is valid for distribution to private consumer.
- 2.3 **Other hazards**
 This mixture contains no substances which are assessed to be PBT or vPvB.

Hazard pictogram(s):



SECTION 3: Composition/information on ingredients

- 3.1 **Substances**
 n.ap.
- 3.2 **Mixtures**
Chemical Characterisation:
 Polyester polyamide net, silvered
Dangerous Ingredients:

Material	Index - No.	EC - No.	REACH - No.	m% - range
CAS - No. Hazard Code(s) / H - phrases				
Silver 7440-22-4 Aquatic Acute 1; H400 M=1000 / Aquatic Chronic 1; H410 M=100	n.av.	231-131-3	01-2119555669-21-xxxx	0,1 - 1%

Text of H - phrases: see section 16
 m% - range: x – y \triangleq x \geq – < y

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SECTION 4: First aid measures

- 4.1 **Description of first aid measures**
- 4.1.1 **Inhalation:**
Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
- 4.1.2 **Skin Contact:**
Wash off with warm water.
- 4.1.3 **Eye Contact:**
Flush eyes with water as a precaution.
- 4.1.4 **Ingestion:**
n.ap.
- 4.2 **Most important symptoms and effects, both acute and delayed**
None known.
- 4.3 **Indication of any immediate medical attention and special treatment needed**
None.

SECTION 5: Firefighting measures

- 5.1 **Extinguishing media**
- 5.1.1 **Suitable Extinguishing Media:**
Use dry chemical, CO₂, water spray or "alcohol" foam.
- 5.1.2 **Extinguishing Media to Avoid:**
None.
- 5.2 **Special hazards arising from the substance or mixture**
None.
- 5.3 **Advice for firefighters**
- 5.3.1 **Special Protective Equipment:**
Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
- 5.3.2 **Additional Information:**
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
See chapter 8.2.2
- 6.2 **Environmental precautions**
Do not contaminate water.
- 6.3 **Methods and material for containment and cleaning up**
Use mechanical handling equipment.
If recycling is not practicable, dispose of in compliance with local regulations.
- 6.4 **Reference to other sections**
None.

SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling:**
Avoid contact with skin and eyes. When using, do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Use biocides safely. Always read the label and product information before use.
- 7.1.2 **Precautions in Case of Fire and Explosion:**
Normal measures for preventive fire protection. The product itself does not burn.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions:**
Keep container tightly closed in a dry and well-ventilated place.
- 7.2.2 **Store away from:**
None.
- 7.2.3 **Further Information on Storage Conditions:**
None.
- 7.3 **Specific end use(s)**
n.av.

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SECTION 8: Exposure controls/personal protection

8.1	Control parameters	
	Material	Limit Value
	Silver	0,1 E mg/m ³ , TWA: 0,5 ppm - mg/m ³
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	
	Ensure adequate ventilation.	
8.2.2	Individual protection measures	
8.2.2a	Respiratory Protection:	Not required under normal use
8.2.2b	Hand Protection:	Not required under normal use Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
8.2.2c	Eye Protection:	Not required under normal use
8.2.2d	Skin Protection:	None.
8.2.2e	Further Information:	Observe wearing time limits:
8.2.3	Environmental exposure controls:	Do not contaminate water.

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties		
9.1.1	Form: solid	Colour: white silver	Odour: odourless
			Odour threshold: n.av.
9.1.2	pH-value, undiluted:	n.ap.	
	pH-value, 1% aqueous solution:	n.ap.	
9.1.3	Boiling point / Boiling - range (°C):	n.av., Melting point / Melting range (°C):	n.av.
9.1.4	Flash point (°C):	n.ap., closed cup	
9.1.5	Flammability (EEC A10/A13):	n.av.	
9.1.6	Ignition temperature (°C):	n.av.	
9.1.7	Autoflammability (EEC A16):	None.	
9.1.8	Oxidising properties:	None.	
9.1.9	Explosion hazard:	None.	
9.1.10	Explosion limits (Vol.%) lower:	n.ap., upper: n.ap.	
9.1.11	Vapour pressure:	n.ap.	
	Vapour density (Air = 1):	n.av.	
9.1.12	Density (g/ml):	n.av.	
9.1.13	Solubility (in Water):	partly soluble	
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.15	Viscosity:	n.ap.	
9.1.16	Solvent content (m %):	n.ap.	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	Other information		
	n.av.		

SECTION 10: Stability and reactivity

10.1	Reactivity
	None.
10.2	Chemical stability
	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions
	No dangerous reaction known under conditions of normal use.
10.4	Conditions to avoid
	Never allow product to get in contact with water during storage.
10.5	Incompatible materials
	Incompatible with acids and bases, water.
10.6	Hazardous decomposition products
	No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute Health Effects:

Inhalation:	n.av.
Ingestion:	n.av.
Skin Contact:	n.av.
Skin corrosion / irritation:	Slight
Serious eye damage / irritation:	Slight
Respiratory or skin sensitisation:	None.
Germ cell mutagenicity:	n.av.
Carcinogenicity:	n.av.
Reproductive toxicity:	n.av.
STOT-single exposure:	n.av.
STOT-repeated exposure:	n.av.
Aspiration hazard:	n.av.

11.1.1 – Practical Experience

11.1.11 n.av.

11.1.12 Practical Experience

Observations relevant for classification:

None.

Further Observations:

None.

Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information**12.1 Toxicity**

Silver: Acute fish toxicity LC₅₀ (96 h): 1,2 µg / L
 Toxicity to daphnia LC₅₀ (48 h): 220 ng/ L
 Toxicity to bacteria EC₁₀ (24 h): 410 - 540 ng / L

12.2 Persistence and degradability

May be separated mechanically in waste water plants.

12.3 Bioaccumulative potential

n.av.

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 Other adverse effects

12.6.1 COD-Value, mg/g:	n.av.
12.6.2 BOD5-Value, mg/g:	n.av.
12.6.3 AOX-Remarks:	Not applicable.
12.6.4 Significant Components:	Silber
12.6.5 Other adverse effects:	Not applicable.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****13.1.1 Recommendation:**

n:

Waste - Code - No.:

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

13.2 Contaminated Packaging

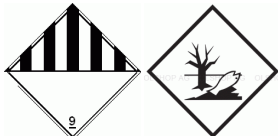
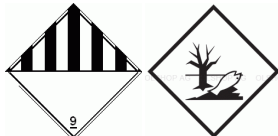

13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

13.2.2 Safe Handling: As described under Residues. Handle in accordance with good industrial hygiene and safety practice.

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SECTION 14: Transport information

	ADR	IMDG	IATA
14.1	UN number 3077	3077	3077
14.2	UN proper shipping name UN 3077 Environmentally hazardous substance, solid, n.o.s. (Silver)	Environmentally hazardous substance, solid, n.o.s. (Silver) MARINE POLLUTANT	Environmentally hazardous substance, solid, n.o.s. (Silver)
14.3	Transport hazard class(es) 9 	9 	9 
14.4	Packing group III	III	III
14.5	Environmental hazards	Yes.	
14.6	Special precautions for user Transport category: 3 Classification Code: M7 Hazard - No.: 90 LQ: 5 kg	F-A, S-F	Packing Instructions (Passenger) 956 Packing Instructions (Cargo) 956
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	n.av.	

SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture n.av.
15.2	Chemical safety assessment : n.ap.

SECTION 16: Other information**Text of H phases mentioned in Section 3**

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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