

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

Printing date 07.07.2021



Version number 1.1

Revision: 07.07.2021

**1 Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- Trade name: **SERVAMINE KW 100**
- **CAS Number:**  
68989-03-7
- **EINECS Number:**  
Polymer
- **UFI:** GC62-F0TH-P00U-7PD3
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Textile auxiliary  
Surface active agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KLK Kolb Specialties B.V.  
Langestraat 167  
NL-7491 AE Delden  
The Netherlands  
Tel +31 (0)74 3775 000  
Product.stewardship@kolb.ch
- **Further information obtainable from:** Product Stewardship
- **Emergency telephone number:** +1 352 323 3500

**2 Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Eye Dam. 1 H318 Causes serious eye damage.  
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 substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
- 


GHS05 GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts)
- **Hazard statements**  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P280 Wear eye protection / face protection.  
P273 Avoid release to the environment.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P391 Collect spillage.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**  
68989-03-7 Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts)
- **Identification number(s)**
- **EC number:** Polymer

### 4 First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.
- **After inhalation:**  
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.
- **After skin contact:**  
Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
- **After eye contact:**  
Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, consult a specialist.
- **After swallowing:**  
If swallowed, seek medical advice immediately and show this SDS or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Burning  
Risk of serious damage to eyes.  
Redness.  
Swelling of tissue.
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

### 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Alcohol resistant foam  
Fire-extinguishing powder  
Carbon dioxide  
Dry sand
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **Hazardous combustion products**  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

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### 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Soak up with inert absorbent material and dispose of as hazardous waste.  
Sweep up and shovel into suitable containers for disposal.  
Clean contaminated surface thoroughly.  
Prevent product from entering drains.  
Local authorities should be advised if significant spillages cannot be contained.
- **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.

### 7 Handling and storage

- **7.1 Precautions for safe handling**  
Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Suitable material:**  
Carbon steel  
Stainless steel  
Plastic
- **7.3 Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Avoid contact with the eyes.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

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

- **Material of gloves**

Neoprene gloves  
Nitrile rubber, NBR  
Butyl rubber, BR

- **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.

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· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Colour:</b>	Slightly Hazy to Clear
· <b>Odour:</b>	Mild
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value (50 g/l) at 20 °C:</b>	6.0 - 8.0 (ASTM D1172)
· <b>Change in condition</b>	
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	> 100 °C
· <b>Flash point:</b>	> 200 °C (ASTM D3278)
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Decomposition temperature:</b>	> 150 °C
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	1.1 g/cm <sup>3</sup> (ISO 2811-2)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>water:</b>	Soluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic at 40 °C:</b>	850 - 950 mPas (ASTM D2196)
· <b>Kinematic:</b>	Not determined.

· **9.2 Other information** No further relevant information available.

## 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** No dangerous reactions known.
- **10.4 Conditions to avoid** Heat, flames and sparks
- **10.5 Incompatible materials:** Oxidizing agent
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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- **LD/LC50 values relevant for classification:**

**68989-03-7 Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts)**

Oral	LD50	> 2,000 mg/kg (Rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **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.
- **Target organ effects:** Eyes.

## 12 Ecological information

- **12.1 Toxicity**

- **Product information:**

**68989-03-7 Quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, methyl sulfates (salts)**

LC50 Toxicity to Fish	28 mg/L (Danio rerio) (96h)
EC50	1 – 10 mg/L (Algae) (literature)
	10 – 100 mg/L (Water flea) (48h)
NOEC	24 mg/L (Danio rerio)

- **12.2 Persistence and degradability**

Not readily biodegradable

Biodegradability:	< 60 % (OECD 301B) 32% (Closed bottle, 28 days)
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- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects**

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

## 13 Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with federal, state and local regulations.

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- **European waste catalogue**

HP4	Irritant - skin irritation and eye damage
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HP14	Ecotoxic
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- **13.2 Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

- **14.1 UN-Number**

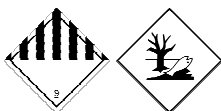
- **ADR, IMDG, IATA** UN3082

- **14.2 UN proper shipping name**

- **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compound, Me sulfate)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compound, Me sulfate), MARINE POLLUTANT
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary ammonium compound, Me sulfate)

- **14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**



- **Class** 9 Miscellaneous dangerous substances and articles.
- **Label** 9

- **14.4 Packing group**

- **ADR, IMDG, IATA** III

- **14.5 Environmental hazards:**

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

- **14.6 Hazard identification number (Kemler code):** 90

- **14.7 EMS Number:** F-A,S-F

- **14.8 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

- **14.9 Transport/Additional information:**

- **Tunnel restriction code** -

## 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Chemical safety assessment**
- **Named dangerous substances - ANNEX I** Substance is not listed.

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

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· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information provided in this Safety Data sheet is correct to the best of KLK Kolb Specialties B.V.' knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific product designated and may not be valid for such product when used in combination with any other material or in any process, unless specified in this SDS. KLK Kolb Specialties B.V. specifically disclaims any liability for any loss, injury or damage which may result from user or misuse of this product.

All chemicals should be handled only by competent personnel, within a controlled environment. It is the buyer's/user's responsibility to ensure that his activities comply with all applicable federal, state, provincial and local laws, and to determine the conditions necessary for the safe user of this product. KLK Kolb Specialties B.V. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product.

· **Reasons for alterations**

· **Basis of Classification**

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP regulation, GHS); See Section 2

· **Department issuing SDS:** Product safety department

· **Abbreviations and acronyms:**

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

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **\* Data compared to the previous version altered.**

EU