

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** -

## **gigasept® pearls**      **No Change Service!**

Version                      Revision Date:                      Date of last issue: 16.05.2018  
01.05                              20.06.2018                              Date of first issue: 23.05.2015

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

#### **1.1 Product identifier**

Trade name                      : gigasept® pearls

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Sub-                      : Cleaning agent, Disinfectants  
stance/Mixture

Recommended restrictions      : Restricted to professional users.  
on use

#### **1.3 Details of the supplier of the safety data sheet**

Manufacturer/ Supplier          : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
  
22851 Norderstedt  
Germany  
Telephone: +49 (0)40/ 52100-0  
Telefax: +49 (0)40/ 52100318  
mail@schuelke.com  
www.schuelke.com

E-mail address of person        : Application Department  
responsible for the                +49 (0)40/ 521 00 8800  
SDS/Contact person              ApplicationDepartment.SM@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

#### **1.4 Emergency telephone number**

Emergency telephone num-      : UK Poisons Emergency number: 0870 600 6266  
ber

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### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

##### **Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4                      H302: Harmful if swallowed.  
Serious eye damage, Category 1                H318: Causes serious eye damage.

#### **2.2 Label elements**

##### **Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms                      :



Signal word                              : Danger

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Hazard statements : H302 Harmful if swallowed.  
H318 Causes serious eye damage.

Precautionary statements : P280 Wear protective gloves/ eye protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.

Hazardous components which must be listed on the label:

15630-89-4      Sodium percarbonate

Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (> 30 % oxygen-based bleaching agents, < 5 % non-ionic surfactants, < 5 % Phosphonates, < 5 % EDTA and salts thereof, enzymes, perfumes)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No special risks known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mixture with the following substances and non dangerous additives.

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sodium percarbonate	15630-89-4 239-707-6 --- 01-2119457268-30	Ox. Sol. 2; H272 Acute Tox. 4; H302 Eye Dam. 1; H318	25 - 50
Citric acid	77-92-9 201-069-1 --- ---	Eye Irrit. 2; H319	10 - 25
Sodium carbonate	497-19-8 207-838-8 011-005-00-2	Eye Irrit. 2; H319	2,5 - 10

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	01-2119485498-19-XXXX		
Disodium EDTA	139-33-3 205-358-3 - - - 01-2119486775-20-XXXX	Acute Tox. 4; H332 STOT RE 2; H373	2,5 - < 10
Tetrasodium EDTA	64-02-8 200-573-9 607-428-00-2 01-2119486762-27-XXXX	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT RE 2; H373	< 2,5

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Do NOT induce vomiting.  
Obtain medical attention.

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

- Symptoms : Treat symptomatically.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

- Suitable extinguishing media : Dry powder  
Foam  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)

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Unsuitable extinguishing media                      :    Do not use a solid water stream as it may scatter and spread fire.

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

Specific hazards during fire-fighting                      :    none

Hazardous combustion products                      :    Oxygen

### **5.3 Advice for firefighters**

Special protective equipment for firefighters                      :    In the event of fire, wear self-contained breathing apparatus.

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions                      :    Use personal protective equipment.

### **6.2 Environmental precautions**

Environmental precautions                      :    Do not flush into surface water or sanitary sewer system.

### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up                      :    Use mechanical handling equipment.

### **6.4 Reference to other sections**

see Section 8 + 13

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling                      :    Avoid dust formation.

Advice on protection against fire and explosion                      :    No special protective measures against fire required.

Hygiene measures                      :    Take off all contaminated clothing immediately. Keep away from food and drink.

### **7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers                      :    Store at room temperature in the original container.

Further information on storage conditions                      :    Store in a dry place. Keep container tightly closed.

Advice on common storage                      :    No materials to be especially mentioned.

### **7.3 Specific end use(s)**

Specific use(s)                      :    none

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

none

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
Sodium carbonate	Workers	Inhalation	Long-term exposure	10 mg/m <sup>3</sup>
Disodium EDTA	Workers	Inhalation	Short-term exposure	2,5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term exposure	2,5 mg/m <sup>3</sup>
Tetrasodium EDTA	Workers	Inhalation	Short-term exposure	2,5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term exposure	2,5 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
Citric acid	Fresh water	0,44 mg/l
	Marine water	0,044 mg/l
	Effects on waste water treatment plants	1000 mg/l
	Fresh water sediment	34,6 mg/kg
	Marine sediment	3,46 mg/kg
Disodium EDTA	Soil	33,1 mg/kg
	Fresh water	2,2 mg/l
	Marine water	0,22 mg/l
	Soil	0,72 mg/kg
	Sewage treatment plant	43 mg/l
Tetrasodium EDTA	Intermittent use/release	1,2 mg/l
	Fresh water	2,2 mg/l
	Marine water	0,22 mg/l
	Soil	0,72 mg/kg
	Sewage treatment plant	43 mg/l
	Intermittent use/release	1,2 mg/l

**8.2 Exposure controls****Personal protective equipment**

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection  
Directive

: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Remarks

: Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (&gt;480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (&gt;480 Min., layer thickness: 0,70 mm) made by

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	KCL or gloves from other manufacturers offering the same protection.
Respiratory protection	: No personal respiratory protective equipment normally required.
Protective measures	: Avoid contact with skin and eyes.

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## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance	: granular
Colour	: light blue
Odour	: perceptible
Odour Threshold	: not determined
pH	: ca. 8 (20 °C) Concentration: 20 g/l in water
Melting point/freezing point	: not determined
Decomposition temperature	60 °C
Boiling point/boiling range	: not determined
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: No data available
Upper explosion limit	: not determined
Lower explosion limit	: not determined
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Bulk density	: 900 kg/m <sup>3</sup>
Solubility(ies) Water solubility	: slightly soluble (20 °C)
Partition coefficient: n- octanol/water	: Not applicable
Auto-ignition temperature	: No data available

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Viscosity  
Viscosity, dynamic : Not applicable

Explosive properties : No data available

Oxidizing properties : No data available

### 9.2 Other information

Self-ignition : not auto-flammable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

### 10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.  
Exposure to moisture

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

None reasonably foreseeable.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Calculation method, Harmful if swallowed.

##### Components:

##### **Sodium percarbonate:**

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

##### **Citric acid:**

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Acute toxicity (other routes of administration) : LD50 intravenous (Mouse): 961 mg/kg

##### **Sodium carbonate:**

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Acute inhalation toxicity : LC50 (Rat): 2,3 mg/l, 2 h, OECD Test Guideline 403  
Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
**Tetrasodium EDTA:**  
Acute inhalation toxicity : LC50 (Rat): 1.000 - 5.000 mg/l, 6 h, OECD Test Guideline 403, The toxicological data has been taken from products of similar composition.  
Acute dermal toxicity : No data available

**Skin corrosion/irritation****Product:**

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

**Serious eye damage/eye irritation****Product:**

Causes serious eye damage., Calculation method

**Respiratory or skin sensitisation****Product:**

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

**Germ cell mutagenicity****Product:**

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.

**Carcinogenicity****Product:**

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

**Reproductive toxicity****Product:**

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

**STOT - single exposure****Product:**

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

**STOT - repeated exposure****Product:**

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

**Repeated dose toxicity****Components:****Citric acid:**

Rat, NOAEL: 1.200 mg/kg, Oral



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No data available

**Further information****Product:**

No data is available on the product itself.

**SECTION 12: Ecological information****12.1 Toxicity****Components:****Sodium percarbonate:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other : Remarks: No data available  
aquatic invertebrates

Toxicity to algae : Remarks: No data available

**Citric acid:**Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l  
Exposure time: 96 hToxicity to daphnia and other : EC50 (Daphnia magna): 85 - 120 mg/l  
aquatic invertebrates Exposure time: 72 h

Toxicity to algae : IC5 (Scenedesmus quadricauda (Green algae)): 640 mg/l

**Sodium carbonate:**Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l  
Exposure time: 96 hToxicity to daphnia and other : EC50 (Daphnia magna): 200 - 227 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : Remarks: No data available

**Tetrasodium EDTA:**Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l  
Exposure time: 96 hToxicity to daphnia and other : EC50 (Daphnia magna): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: DIN 38412Toxicity to algae : EC50 : > 100 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

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Toxicity to fish (Chronic toxicity) : NOEC: > 36,9 mg/l  
Exposure time: 35 d  
Species: Brachidanio rerio  
Method: OECD Test Guideline 210  
Remarks: The toxicological data has been taken from products of similar composition.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l  
Exposure time: 21 d  
Species: Daphnia (water flea)  
Method: OECD Test Guideline 211  
Remarks: The toxicological data has been taken from products of similar composition.

### 12.2 Persistence and degradability

#### Components:

##### **Sodium percarbonate:**

Biodegradability : Remarks: No data available

##### **Citric acid:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

##### **Sodium carbonate:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

##### **Tetrasodium EDTA:**

Biodegradability : Result: Not rapidly biodegradable  
Remarks: According to OECD criteria, the product is inherently biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

##### **Sodium percarbonate:**

Bioaccumulation : Remarks: No data available

##### **Citric acid:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: -1,72

##### **Sodium carbonate:**

Bioaccumulation : Remarks: Does not bioaccumulate.

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**Tetrasodium EDTA:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 28 d  
Bioconcentration factor (BCF): 1,8  
Remarks: Does not significantly accumulate in organisms.

**12.4 Mobility in soil****Components:****Sodium percarbonate:**

Mobility : Remarks: No data available

**Citric acid:**

Mobility : Remarks: No data available

**Sodium carbonate:**

Mobility : Remarks: No data available

**Tetrasodium EDTA:**

Mobility : Remarks: Substance does not evaporate from water surface into the atmosphere., Adsorption to solid soil phase is possible.

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**12.6 Other adverse effects****Product:**

Additional ecological information : No data is available on the product itself.

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

Product : Do not dispose of with domestic refuse.

Contaminated packaging : Take empty packaging to the recycling plant.

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Waste key for the unused product                      : European waste catalog (EWC) 070699  
Waste key for the unused product(Group)                      : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

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## **SECTION 14: Transport information**

### **14.1 UN number**

Not regulated as a dangerous good

### **14.2 UN proper shipping name**

Not regulated as a dangerous good

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

Not regulated as a dangerous good

### **14.4 Packing group**

Not regulated as a dangerous good

### **14.5 Environmental hazards**

Not regulated as a dangerous good

### **14.6 Special precautions for user**

Not applicable  
For personal protection see section 8.

### **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

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## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59)                      : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants                      : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Volatile organic compounds                      : Remarks: none, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

### **15.2 Chemical safety assessment**

Exempt

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**SECTION 16: Other information**
**Full text of H-Statements**

H272	:	May intensify fire; oxidizer.
H302	:	Harmful if swallowed.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H373	:	May cause damage to organs through prolonged or repeated exposure if inhaled.

**Full text of other abbreviations**

Acute Tox.	:	Acute toxicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Ox. Sol.	:	Oxidizing solids
STOT RE	:	Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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### **Further information**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Acute Tox. 4, H302                      : Calculation method

Eye Dam. 1, H318                      : Calculation method

|| Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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