

gigasept® pearls **No Change Service!**Version
01.03Revision Date:
08.02.2017Date of last issue: 29.11.2016
Date of first issue: 23.05.2015**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 againstUse of the Sub-
stance/Mixture : Cleaning agent, DisinfectantsRecommended restrictions
on use : Restricted to professional users.**1.3 Details of the supplier of the safety data sheet**Manufacturer/ Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 222851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100318
mail@schuelke.com
www.schuelke.comE-mail address of person
responsible for the
SDS/Contact person : Application Department
+49 (0)40/ 521 00 8800
ADHI@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)**1.4 Emergency telephone number**Emergency telephone num-
ber : UK Poisons Emergency number: 0870 600 6266**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

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

Precautionary statements : P280 Wear protective gloves/ eye protection.

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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	Index-Number CAS-No. EC-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	011-005-00-2 497-19-8 207-838-8 01-2119485498-19-XXXX	Eye Irrit. 2; H319	2,5 - 10

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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	607-428-00-2 64-02-8 200-573-9 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 (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : none
- Specific risk from the substance or the product itself, its combustion products or evolved gases : Oxygen

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

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

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

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 ³
Disodium EDTA	Workers	Inhalation	Short-term exposure	2,5 mg/m ³
	Workers	Inhalation	Long-term exposure	2,5 mg/m ³
Tetrasodium EDTA	Workers	Inhalation	Short-term exposure	2,5 mg/m ³

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	Workers	Inhalation	Long-term exposure	2,5 mg/m ³
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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
	Soil	33,1 mg/kg
Disodium EDTA	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
Tetrasodium EDTA	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 (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by 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.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Appearance	: granular
Colour	: light blue
Odour	: perceptible
Odour Threshold	: not determined
pH	: ca. 8, Concentration: 20 g/l, 20 °C, 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
Relative vapour density	: Not applicable
Bulk density	: 900 kg/m ³
Solubility(ies)	
Water solubility	: slightly soluble , 20 °C
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Viscosity	
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2 Other information

No data available

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

None reasonably foreseeable.

10.4 Conditions to avoid

Avoid dust formation. Exposure to moisture

10.5 Incompatible materials

No data available,

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

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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:

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.

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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

Aspiration toxicity

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 : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Citric acid:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 85 - 120 mg/l, 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, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 200 - 227 mg/l, 48 h

Toxicity to algae : No data available

Tetrasodium EDTA:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): > 100 mg/l, 48 h, DIN 38412

Toxicity to algae : EC50 : > 100 mg/l, 72 h, Growth inhibition

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

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

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Biodegradability : No data available

Citric acid:

Biodegradability : Readily biodegradable., OECD Test Guideline 301B

Sodium carbonate:

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

Tetrasodium EDTA:

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

12.3 Bioaccumulative potential**Components:****Sodium percarbonate:**

Bioaccumulation : No data available

Citric acid:

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

Partition coefficient: n-octanol/water

: log Pow: -1,72

Sodium carbonate:

Bioaccumulation : Does not bioaccumulate.

Tetrasodium EDTA:

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

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

Mobility : No data available

Citric acid:

Mobility : No data available

Sodium carbonate:

Mobility : No data available

Tetrasodium EDTA:

Mobility : 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 available

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- Product : Do not dispose of with domestic refuse.
 Contaminated packaging : Take empty packaging to the recycling plant.
 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.

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

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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

15.2 Chemical safety assessment

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Exempt

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; 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

Further information

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

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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.