

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

Version 01.01 Revision Date 14.07.2015

Date of last issue 23.05.2015

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- : Cleaning agent
stance/MixtureRecommended restrictions : Restricted to professional users.
on use**1.3 Details of the supplier of the safety data sheet**Producer/Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt
Germany
Telephone: +4940521000
Telefax: +494052100318
mail@schuelke.com
www.schuelke.comContact person : Application Department HI
+49 (0)40/ 521 00 544
ADHI@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)**1.4 Emergency telephone number**Emergency telephone num- : UK Poisons Emergency number: 0870 600 6266
ber
Emergency telephone num- : +49 (0)40 / 52 100 -0
ber**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.**Classification (67/548/EEC, 1999/45/EC)**Harmful R22: Harmful if swallowed.
Irritant R41: Risk of serious damage to eyes.**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H302
H318

Harmful if swallowed.
Causes serious eye damage.

Precautionary statements

: P280
P301+P312

Wear protective gloves/ protective clothing.
IF SWALLOWED: Call a POISON CENTER
or doctor/ physician 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 mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
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 (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Sodium percarbonate	15630-89-4 239-707-6	O; R 8 Xn; R22 Xi; R41	Ox. Sol. 2; H272 Acute Tox. 4; H302 Eye Dam. 1; H318	25 - 50 %
Citric acid	77-92-9 201-069-1	Xi; R36	Eye Irrit. 2; H319	10 - 25 %
Sodium carbonate	011-005-00-2 497-19-8	Xi; R36	Eye Irrit. 2; H319	2,5 - 10 %

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	207-838-8 01- 2119485498- 19-XXXX			
Disodium EDTA	139-33-3 205-358-3 01- 2119486775- 20-XXXX	Xn; R20	Acute Tox. 4; H332	2,5 - 10 %
Tetrasodium EDTA	607-428-00-2 64-02-8 200-573-9 01- 2119486762- 27-XXXX	Xn; R20/22 Xi; R41	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318	< 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 : 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- : none

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fighting

Specific risk from the substance or the product itself, its combustion products or evolved gases : Oxygen

5.3 Advice for firefighters

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

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. Wash hands before breaks and at the end of workday.

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 : Keep away from food and drink.

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:

Sodium carbonate : End Use: Workers, Exposure routes: Inhalation, Potential health effects: Long-term exposure, Value: 10 mg/m³

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

Citric acid : Fresh water, Value: 0,44 mg/l
Marine water, Value: 0,044 mg/l
Effects on waste water treatment plants, Value: 1000 mg/l
Fresh water sediment, Value: 34,6 mg/kg
Marine sediment, Value: 3,46 mg/kg
Soil, Value: 33,1 mg/kg

8.2 Exposure controls**Personal protective equipment**

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

Hand protection : 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.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: granular
II Colour	: light blue
Odour	: perceptible
Odour Threshold	: not determined
Flash point	: Not applicable
Auto-ignition temperature	: not auto-flammable
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The product has been shown not to be oxidizing in a test following Directive 67/548/EEC (Method A17, Oxidizing properties).

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pH	: ca. 8, Concentration: 20,00 g/l, 20 °C, in water
Melting point/freezing point	: not determined
Decomposition temperature	60 °C
Boiling point/boiling range	: not determined
Vapour pressure	: Not applicable,
Relative vapour density	: Not applicable
Bulk density	: 900 kg/m ³
Water solubility	: slightly soluble, 20 °C
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, dynamic	: Not applicable
Evaporation rate	: Not applicable

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**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: 961 mg/kg, Mouse

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Sodium carbonate:

Acute inhalation toxicity : LC50: 2,3 mg/l, 2 h, Rat, OECD Test Guideline 403

Acute dermal toxicity : LD50: > 2000 mg/kg, Rabbit

Tetrasodium EDTA:

Acute inhalation toxicity : LC50: 1000 - 5000 mg/l, 6 h, Rat, 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

Components:

Sodium percarbonate:

No data available

Citric acid:

Does not cause skin sensitisation.

Sodium carbonate:

No data available

Tetrasodium EDTA:

Does not cause skin sensitisation. Maximisation Test (GPMT), Guinea pig, OECD Test Guideline 406

Germ cell mutagenicity

Components:

Sodium percarbonate:

Germ cell mutagenicity- Assessment : No data available

Citric acid:

Germ cell mutagenicity- Assessment : not mutagenic

Sodium carbonate:

Germ cell mutagenicity- Assessment : Contains no ingredient listed as a mutagen

Tetrasodium EDTA:

Genotoxicity in vitro : In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Did not show mutagenic effects in animal experiments.

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

Sodium percarbonate:

Carcinogenicity - Assessment : No data available

Citric acid:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Sodium carbonate:

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Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Tetrasodium EDTA:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

Sodium percarbonate:

Reproductive toxicity - Assessment : No data available

Teratogenicity - Assessment : No data available

Citric acid:

Reproductive toxicity - Assessment : No toxicity to reproduction

Teratogenicity - Assessment : Did not show mutagenic or teratogenic effects in animal experiments.

Sodium carbonate:

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

Teratogenicity - Assessment : Did not show carcinogenic or teratogenic effects in animal experiments.

Tetrasodium EDTA:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

Teratogenicity - Assessment : Animal testing did not show any effects on foetal development.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

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:

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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

12.2 Persistence and degradability**Components:****Sodium percarbonate:**

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 degradable

12.3 Bioaccumulative potential**Product**

Partition coefficient: n-octanol/water : Not applicable

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 : Species: Lepomis macrochirus (Bluegill sunfish), 28 d, Bio-concentration factor (BCF): 1,8, No bioaccumulation is to be expected (log Pow <= 4).

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

Mobility : No data available

Citric acid:

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Mobility	: No data available
Sodium carbonate:	
Mobility	: No data available
Tetrasodium EDTA:	
Mobility	: Slightly mobile in soils

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

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects**Product**

Additional ecological information : No data available

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.
Waste key for the unused product	: The waste producer should make the classification in consultation with the appropriate authorities and a waste disposal company.
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.

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislation on the control of
major-accident hazards in-
volving dangerous substanc-
es : Directive 96/82/EC does not apply

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

15.2 Chemical Safety Assessment

Exempt

SECTION 16: Other information**Full text of R-Phrases**

R 8 : Contact with combustible material may cause fire.
R20 : Harmful by inhalation.
R20/22 : Harmful by inhalation and if swallowed.
R22 : Harmful if swallowed.
R36 : Irritating to eyes.
R41 : Risk of serious damage to eyes.

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.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Ox. Sol.	Oxidizing solids

Further information

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.