

Summary of product characteristics for a biocidal product

Product name: Natrijev hipoklorit 180 g/l

Product type(s): PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

PT05 - Drinking water (Disinfectants)

Authorisation number: SI-0030931-0000

R4BP 3 asset reference number: SI-0030931-0004

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Administrative information

1.1. Trade names of the product

Natrijev hipoklorit 180 g/l
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Sodium hypochlorite 180 g/l
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Sodium hypochlorite 180 g/l
Sodium hypochlorite 180 g/l

1.2. Authorisation holder

Name and address of the authorisation holder	Name	TKI Hrastnik d.d.
	Address	Za Savo 6 1430 Hrastnik Slovenia
Authorisation number	SI-0030931-0000 1-1	
R4BP 3 asset reference number	SI-0030931-0004	
Date of the authorisation	16/05/2023	
Expiry date of the authorisation	16/05/2033	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	TKI Hrastnik, d.d.
Address of the manufacturer	Za Savo 6 1430 Hrastnik Slovenia
Location of manufacturing sites	Cesta 1. maja 33 1430 Hrastnik Slovenia

1.4. Manufacturer(s) of the active substance(s)

Active substance	1391 - Active chlorine released from sodium hypochlorite
Name of the manufacturer	TKI Hrastnik, d.d.
Address of the manufacturer	Za Savo 6 1430 Hrastnik Slovenia
Location of manufacturing sites	Cesta 1. maja 33 1430 Hrastnik Slovenia

2. Product composition and formulation

2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Active chlorine released from sodium hypochlorite		Active Substance			14,5
Sodium hydroxide	Sodium hydroxide	Non-active substance	1310-73-2	215-185-5	0
Potassium hydroxide	Potassium hydroxide	Non-active substance	1310-58-3	215-181-3	0

2.2. Type of formulation

SL - Soluble concentrate

3. Hazard and precautionary statements

Hazard statements

Causes severe skin burns and eye damage.
Very toxic to aquatic life with long lasting effects.
Contact with acids liberates toxic gas.

Precautionary statements

Do not breathe vapours.
Do not breathe mist.
Do not breathe spray.
Wash hands thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/....
Wash contaminated clothing before reuse.
Collect spillage.
Store locked up.
Dispose of contents to in accordance with local regulation.
Dispose of container to in accordance with local regulation.

4. Authorised use(s)

4.1 Use description

Use 1 - Swimming pool and spa water disinfection

Product type

PT02 - Disinfectants and algacides not intended for direct application to humans or animals (Disinfectants)

Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	<p>Scientific name: / Common name: Bacteria Development stage:</p> <p>Scientific name: other Common name: Viruses Development stage:</p>
Field(s) of use	<p>Indoor</p> <p>Outdoor</p> <p>Swimming pool, spa</p>
Application method(s)	<p>Method: Closed system Detailed description: Chlorination of water is fully automated process. Machine is equipped with dosing and measuring systems that regulate concentration of active chlorine in the water.</p>
Application rate(s) and frequencies	<p>Application Rate: Maintenance treatment - continuous application: The set-point range for the concentration during water disinfection should be set at 1 mg available chlorine/L of water Dilution (%): / Number and timing of application: Continuously</p>
Category(ies) of users	Professional
Pack sizes and packaging material	<p>HDPE, IBC, 1000 L HDPE, drum, 60 L HDPE, jerrycan, 25 L</p>

4.1.1 Use-specific instructions for use

Chlorination of water is continuous fully automated process performed according to standard DIN 19643 - Treatment of water of swimming pools and baths. Machine is equipped with dosing and measuring systems that regulate concentration of active chlorine in the water.
The set-point range for the concentration during water disinfection should be set at 1 mg available chlorine/L of water.

Follow the instructions of the chlorinating machine manufacturer.

4.1.2 Use-specific risk mitigation measures

Wear chemical resistant gloves, eye/face protection, protective clothing and closed footwear for mixing and loading and maintenance/cleaning of dosing pumps (glove and coverall material to be specified by the authorisation holder within the product information).
Wear respiratory protective equipment against aerosols during maintenance/cleaning of dosing pumps (filter type (code letter, colour) to be specified by the authorisation holder within the product information).
Application of this product is exclusively allowed in swimming pools with connection to a sewage treatment plant. It is not allowed to directly discharge swimming pool water to the surface water.

4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Shelf-life: 3 months

4.2 Use description

Use 2 - Swimming pool water shock disinfection

Product type

PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

Where relevant, an exact description of the authorised use

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Target organism(s) (including development stage)

Scientific name: other
Common name: Bacteria
Development stage:

Scientific name: other
Common name: Viruses
Development stage:

Field(s) of use

Indoor

Outdoor

Swimming pool

Application method(s)	Method: Closed system Detailed description: Chlorination of water is fully automated process. Machine is equipped with dosing and measuring systems that regulate concentration of active chlorine in the water.
Application rate(s) and frequencies	Application Rate: Curative treatment - shock dosing application: The product is applied to reach the concentration max. 30 mg of available chlorine/L of water Dilution (%): / Number and timing of application: Occasionally Contact time: 30 minutes
Category(ies) of users	Professional
Pack sizes and packaging material	HDPE, IBC, 1000 L HDPE, drum, 60 L HDPE, jerrycan, 25 L

4.2.1 Use-specific instructions for use

Shock disinfection of pool water is fully automated process performed when elevated concentrations of microorganisms are present in the water. Machine is equipped with dosing and measuring systems that regulate concentration (max. 30 mg available chlorine/L water) of active chlorine in the water.

4.2.2 Use-specific risk mitigation measures

Wear chemical resistant gloves, eye/face protection, protective clothing and closed footwear for mixing and loading and maintenance/cleaning of dosing pumps (glove and coverall material to be specified by the authorisation holder within the product information).
Wear respiratory protective equipment against aerosols during maintenance/cleaning of dosing pumps (filter type (code letter, colour) to be specified by the authorisation holder within the product information).
Treatment must be made in absence of bathers.
Do not allow entrance to the pool until the concentration decreases back to 1.0 mg/L of available chlorine or to national chlorine limit.

4.2.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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4.2.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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4.2.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Shelf-life: 3 months

4.3 Use description

Use 3 - Drinking water disinfection

Product type	PT05 - Drinking water (Disinfectants)
Where relevant, an exact description of the authorised use	/
Target organism(s) (including development stage)	Scientific name: other Common name: Bacteria Development stage: Scientific name: other Common name: Viruses Development stage:
Field(s) of use	Indoor Disinfection at the drinking water suppliers and their water distribution systems
Application method(s)	Method: Closed system Detailed description: Chlorination of water is continuous fully automated process. Machine is equipped with dosing and measuring systems that regulate concentration of active chlorine in the water.
Application rate(s) and frequencies	Application Rate: Primary disinfection (maintenance treatment - continuous application): The set-point range for the concentration during drinking water disinfection should be set at 0.5 mg available chlorine/L of water Dilution (%): / Number and timing of application: Continuously
Category(ies) of users	Professional
Pack sizes and packaging material	HDPE, IBC, 1000 L HDPE, drum, 60 L HDPE, jerrycan, 25 L



4.3.1 Use-specific instructions for use

Chlorination of water is continuous fully automated process. Machine is equipped with dosing and measuring systems that regulate concentration of active chlorine in the water.

The set-point range for the concentration during drinking water disinfection should be set at 0.5 mg available chlorine/L water.

4.3.2 Use-specific risk mitigation measures

Wear chemical resistant gloves, eye/face protection, protective clothing and closed footwear for mixing and loading and maintenance/cleaning of dosing pumps (glove and coverall material to be specified by the authorisation holder within the product information).

Wear respiratory protective equipment against aerosols during maintenance/cleaning of dosing pumps (filter type (code letter, colour) to be specified by the authorisation holder within the product information).

Ensure that the concentration of chlorine in the drinking water does not exceed national chlorine limits before consumption.

Ensure that the concentration of chlorate present in the drinking water does not exceed the parametric values set in Directive 2020/2184.

For food commodities, ensure that the concentration of chlorate present in food does not exceed the MRL values set in Regulation 2020/749.

4.3.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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4.3.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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4.3.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Shelf-life: 3 months

5. General directions for use

5.1. Instructions for use

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5.2. Risk mitigation measures

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5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

FIRST AID:
IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms: Call 112/ambulance for medical assistance. If no symptoms: Call a POISON CENTRE or a doctor.
IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call 112/ambulance for medical assistance.
IF ON SKIN: Immediately wash skin with plenty of water. Thereafter take off all contaminated clothing and wash it before reuse. Continue to wash the skin with water for 15 minutes. Call a POISON CENTRE or a doctor.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Call 112/ambulance for medical assistance.
Information to Healthcare personnel/doctor: The eyes should also be rinsed repeatedly on the way to the doctor if eye exposure to alkaline chemicals (pH > 11), amines and acids like acetic acid, formic acid or propionic acid.

ENVIRONMENT:
Avoid release to the environment. Absorb split chemicals with inert binding material (sand, clay or universal binders).

5.4. Instructions for safe disposal of the product and its packaging

Dispose the product left over to the licensed waste-disposal contractor.

5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

Store the product in cool (0 - 25 °C) and dry place, protected from sunlight.
Shelf-life: 3 months

6. Other information

Please note that some member states including Slovenia, after primary disinfection, request to maintain a residual level of available chlorine in drinking water in the pipes as a precautionary measure. This additional amount, claimed by the applicant as "Secondary disinfection: max. 0.5 mg/L available chlorine (residual)" has been considered as covered by the primary disinfection.