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ANNEX

SUMMARY OF PRODUCT CHARACTERISTICS FOR A BIOCIDAL PRODUCT

PPC Chlorine liquid

Product type(s)

PT02: Disinfectants and algaecides not intended for direct application to humans or animals

Authorisation number: BE2024-0018

R4BP asset number: BE-0031651-0000

1. ADMINISTRATIVE INFORMATION

1.1. Trade name(s) of the product

Trade name(s)	PPC Chlorine liquid

1.2. Authorisation holder

Name and address of the authorisation holder	Name	Vynova PPC SAS
	Address	95 rue du Général de Gaulle BP 60090 68802 THANN CEDEX France
Authorisation number		BE2024-0018
R4BP asset number		BE-0031651-0000
Date of the authorisation		07/08/2024
Expiry date of the authorisation		15/05/2034

1.3. Manufacturer(s) of the product

Name of manufacturer	Vynova PPC SAS
Address of manufacturer	95 rue du Général de Gaulle; BP 60090 68802 Thann Cedex France
Location of manufacturing sites	95 rue du Général de Gaulle; BP 60090 68802 Thann Cedex France

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

Active substance	Active chlorine released from chlorine
Name of manufacturer	Vynova PPC SAS
Address of manufacturer	95 rue du Général de Gaulle; BP 60090 68802 Thann Cedex France
Location of manufacturing sites	95 rue du Général de Gaulle; BP 60090 68802 Thann Cedex France

2. PRODUCT COMPOSITION AND FORMULATION

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

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Active chlorine released from chlorine		active substance			100 % (w/w)

2.2. Type(s) of formulation

GA Gas

3. HAZARD AND PRECAUTIONARY STATEMENTS

Hazard statements	H270: May cause or intensify fire; oxidiser. H315: Causes skin irritation. H319: Causes serious eye irritation. H331: Toxic if inhaled. H335: May cause respiratory irritation. H400: Very toxic to aquatic life. H280: Contains gas under pressure; may explode if he ated.
Precautionary statements	P220: Keep away from clothing or other combustible materials. P260: Do not breathe gas. P273: Avoid release to the environment. P280: Wear protective gloves. P280: Wear protective clothing. P280: Wear eye protection. P280: Wear face protection. P304+P340: IF INHALED: Remove person to fresh ai r and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pr esent and easy to do. Continue rinsing. P391: Collect spillage. P403+P233: Store in a well-ventilated place. Keep con tainer tightly closed. P405: Store locked up. P410+P403: Protect from sunlight. Store in a well-ven tilated place. P370+P376: In case of fire: Stop leak if safe to do so. P501: Dispose of contents to local regulation. P244: Keep valves and fittings free from oil and greas e. P312: Call a doctor if you feel unwell. P261: Avoid breathing gas. P264: Wash hands thoroughly after handling.

	P271: Use only outdoors or in a well-ventilated area. P302+P352: IF ON SKIN: Wash with plenty of water. P311: Call a Poison center/doctor. P321: Specific treatment (see information on this label). P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse.

4. AUTHORISED USE(S)

4.1. Use description

Table 1. Disinfection of raw water from wells or rivers for the preparation of industrial water

Product type	PT02: Disinfectants and algaecides not intended for direct application to humans or animals
Where relevant, an exact description of the authorised use	Disinfection of raw water from wells or rivers for the preparation of industrial water. After disinfection, industrial water is to be used as such or can undergo further treatment/purification depending on its final use. Industrial water is not to be used in food production or processing facilities. This application does not consider chlorine as a preservative of process water.
Target organism(s) (including development stage)	Scientific name: bacteria Common name: Bacteria Development stage: no data Scientific name: algae Common name: algae Development stage: no data
Field(s) of use	indoor use indoor (to be confirmed): the chlorination is always done in closed system (=indoor); the use of treated water can be both indoor and outdoor; Industrial settings
Application method(s)	Method: closed system Detailed description: Automated, closed dosing system.
Application rate(s) and frequency	Application rate: 5 ppm active chlorine; 15°C Dilution (%): - Number and timing of application: -
Category(ies) of users	industrial
Pack sizes and packaging material	Cylinder: 4.8 - 140 L (6-175 kg Cl2) Drum: 400-1,000 L (500-1,250 kg Cl2) Carbon/stainless steel

4.1.1. Use-specific instructions

Connect the chlorine cylinder or drum to the automatic, closed dosing system. Set up the parameters of the system to obtain an active chlorine concentration in the water according to the application rates indicated above.

4.1.2. Use-specific risk mitigation measures

Chlorine concentrations in treated water released directly to surface water should not exceed 0.45 µg/L.

In case of potential direct release to surface water during or after use, reduce chlorine concentrations by active carbon filtration or addition of reducing agents (e.g. ascorbic acid or sodium ascorbate). Alternatively, the water can be retained in a buffer before use and/or discharge.

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

See General directions for use

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

See General directions for use

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

See General directions for use

5. GENERAL DIRECTIONS FOR USE[1]

5.1. Instructions for use

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5.2. Risk mitigation measures

For industrial users/bystanders during connecting or disconnecting the product containers as well as for maintenance or repair of the gas pipe system, the following risk mitigation measures (RMMs) are mandatory:
- an alarm system (trigger value corresponding to the AEC: 0.5 mg avCl/m³ (or lower according to national legislation)) is in place with initiates safety procedures like wearing RPE (EN141B);
- application of LEV (according to the national legislation) and low-pressure/vacuum are in place to avoid chlorine emission;
- the electrochemical sensors used for measurements detect various chlorinated species additional to chlorine itself;
- sensors are measuring exposure also when the operators are using RPE (EN141B)

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

Avoid breathing this toxic gas as much as possible. IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing. Immediately call 112/ambulance for medical assistance.

Information to Healthcare personnel/doctor:

Immediately initiate life support measures, thereafter call a POISON CENTRE.

IF SWALLOWED: Not applicable.

IF ON SKIN: Take off all contaminated clothing and wash it before reuse. Wash skin with water. If skin irritation occurs: Get medical advice.

IF IN EYES: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing for 5 minutes. Call a POISON CENTRE or a doctor.

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

At the end of the treatment, dispose unused product and the packaging in accordance with local requirements.

Do not discharge unused product on the ground, into water courses, into pipes (sink, toilets…) nor down the drains.

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

Storage conditions:

[1]Instructions for use, risk mitigation measures and other directions for use under this section are valid for any authorised uses.

Airtight pressure tanks: Due to its chemical and physical properties, chlorine gas is always stored in dedicated carbon/steel recipients with special, dedicated valves. Chlorine packages for use within the EU should be constructed and labelled according to the Transportable Pressure Equipment Directive (TPED) and ADR. Maximum filling 1.25 kg/l (80% of volume approx.).
Keep containers with chlorine tightly closed and store in a cool, dry and well-ventilated place. Tightly screw on the valve outlet protection seal and the valve protection cap when storing. Prevent cylinders from falling over. Protect from heat and direct sunlight, the temperature of the container should never be below 15°C and > 50°C.

Chlorine should be kept away from reactive products (materials to avoid: reducing agents, combustible materials, metals in powder, acetylene, hydrogen, ammonia, hydrocarbons and organic materials).

6. OTHER INFORMATION