

## Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation



**KiiltoClean Oy - Kiilto Pro Pluschlor - 41118,41119,410661,410663,41029,3103157  
3103157**

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** KiiltoClean Oy - Kiilto Pro Pluschlor - 41118,41119,410661,410663,41029,3103157  
3103157
- Other means of identification:**
- UFI:** R8VN-83V3-M00C-KCKM
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Disinfectant . For professional users/industrial user only.  
Uses advised against (Professional users): not defined
- 1.3 Details of the supplier of the safety data sheet:**  
KiiltoClean Oy  
Tengströminkatu 6  
PL157, 20101 Turku - FINLAND  
Phone: +358 (0) 207710400  
asiakaspalvelu@kiilto.com  
www.kiilto.fi
- 1.4 Emergency telephone number:** 112

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410  
Met. Corr. 1: Corrosive to metals, Category 1, H290  
Skin Corr. 1B: Skin corrosion, Category 1B, H314
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
**Danger**
- 
- Hazard statements:**  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  
Met. Corr. 1: H290 - May be corrosive to metals.  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
- Precautionary statements:**  
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P313: Get medical advice/attention.  
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
- Supplementary information:**  
EUH031: Contact with acids liberates toxic gas.
- Substances that contribute to the classification**  
sodium hypochlorite, solution ... % Cl active (CAS: 7681-52-9)
- 2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria  
Endocrine-disrupting properties: The product fails to meet the criteria.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance:**

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Aqueous mixture composed of organochloride compounds

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 7681-52-9 EC: 231-668-3 Index: Non-applicable REACH: 01-2119488154-34-XXXX	<b>sodium hypochlorite, solution ... % Cl active<sup>(1)</sup></b> Self-classified	<b>1 - &lt;5 %</b>
	Regulation 1272/2008 Aquatic Acute 1: H400; Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Corr. 1B: H314; STOT SE 3: H335; EUH031 - Danger	
CAS: 126-92-1 EC: 204-812-8 Index: Non-applicable REACH: 01-2119971586-23-XXXX	<b>Sodium ethylhexyl sulfate<sup>(1)</sup></b> Self-classified	<b>1 - &lt;5 %</b>
	Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: 1310-73-2 EC: 215-185-5 Index: Non-applicable REACH: 01-2119457892-27-XXXX	<b>Sodium hydroxide<sup>(1)</sup></b> ATP CLP00	<b>0,5 - &lt;2 %</b>
	Regulation 1272/2008 Skin Corr. 1A: H314 - Danger	
CAS: 68955-55-5 EC: 931-341-1 Index: Non-applicable REACH: 01-2119489396-21-XXXX	<b>Amines, C12-18-alkyldimethyl, N-oxides<sup>(1)</sup></b> Self-classified	<b>0,1 - &lt;1 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**Other information:**

Identification	M-factor	
	sodium hypochlorite, solution ... % Cl active CAS: 7681-52-9 EC: 231-668-3	Acute
	Chronic	1

Identification	Specific concentration limit
Sodium hydroxide CAS: 1310-73-2 EC: 215-185-5	% (w/w) >=5: Skin Corr. 1A - H314 2<= % (w/w) <5: Skin Corr. 1B - H314 0,5<= % (w/w) <2: Skin Irrit. 2 - H315 % (w/w) >=2: Eye Dam. 1 - H318 0,5<= % (w/w) <2: Eye Irrit. 2 - H319
Sodium ethylhexyl sulfate CAS: 126-92-1 EC: 204-812-8	% (w/w) >=20: Eye Dam. 1 - H318 10<= % (w/w) <20: Eye Irrit. 2 - H319

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

**By inhalation:**

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

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### SECTION 4: FIRST AID MEASURES (continued)

#### **By ingestion/aspiration:**

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

#### **5.1 Extinguishing media:**

##### **Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

##### **Unsuitable extinguishing media:**

Non-applicable

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### **5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

##### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

##### **For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

##### **For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

#### **6.2 Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

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

See sections 8 and 13.

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**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used. **KEEP ONLY IN ORIGINAL PACKAGING.**

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 25 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
sodium hypochlorite, solution ... % Cl active CAS: 7681-52-9 EC: 231-668-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	3,1 mg/m <sup>3</sup>	3,1 mg/m <sup>3</sup>	1,55 mg/m <sup>3</sup>	1,55 mg/m <sup>3</sup>
Sodium hydroxide CAS: 1310-73-2 EC: 215-185-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m <sup>3</sup>
Sodium ethylhexyl sulfate CAS: 126-92-1 EC: 204-812-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	4060 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	285 mg/m <sup>3</sup>	Non-applicable
Amines, C12-18-alkyldimethyl, N-oxides CAS: 68955-55-5 EC: 931-341-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	6,2 mg/m <sup>3</sup>	Non-applicable

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
sodium hypochlorite, solution ... % Cl active CAS: 7681-52-9 EC: 231-668-3	Oral	Non-applicable	Non-applicable	0,26 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	3,1 mg/m <sup>3</sup>	3,1 mg/m <sup>3</sup>	1,55 mg/m <sup>3</sup>	1,55 mg/m <sup>3</sup>

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Sodium hydroxide CAS: 1310-73-2 EC: 215-185-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m <sup>3</sup>
Sodium ethylhexyl sulfate CAS: 126-92-1 EC: 204-812-8	Oral	Non-applicable	Non-applicable	24 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	2440 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	85 mg/m <sup>3</sup>	Non-applicable
Amines, C12-18-alkyldimethyl, N-oxides CAS: 68955-55-5 EC: 931-341-1	Oral	Non-applicable	Non-applicable	0,44 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	5,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,53 mg/m <sup>3</sup>	Non-applicable

**PNEC:**



Identification				
sodium hypochlorite, solution ... % Cl active CAS: 7681-52-9 EC: 231-668-3	STP	4,69 mg/L	Fresh water	0,00021 mg/L
	Soil	Non-applicable	Marine water	0,000042 mg/L
	Intermittent	0,00026 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	0,0111 g/kg	Sediment (Marine water)	Non-applicable
Sodium ethylhexyl sulfate CAS: 126-92-1 EC: 204-812-8	STP	1,35 mg/L	Fresh water	0,136 mg/L
	Soil	0,22 mg/kg	Marine water	0,014 mg/L
	Intermittent	4,83 mg/L	Sediment (Fresh water)	1,5 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,15 mg/kg
Amines, C12-18-alkyldimethyl, N-oxides CAS: 68955-55-5 EC: 931-341-1	STP	24 mg/L	Fresh water	0,034 mg/L
	Soil	1,02 mg/kg	Marine water	0,003 mg/L
	Intermittent	0,034 mg/L	Sediment (Fresh water)	5,24 mg/kg
	Oral	0,0111 g/kg	Sediment (Marine water)	0,524 mg/kg

**8.2 Exposure controls:**



**A.- Individual protection measures, such as personal protective equipment**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: FFP2)		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

**C.- Specific protection for the hands**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves (Material: Nitrile/Neoprene, Breakthrough time: > 480 min, Thickness: 0.38 mm)		EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN ISO 21420:2020	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

**D.- Eye and face protection**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Protective gloves complying with EN 374., e.g. nitrile rubber, break-through time 480min. Respiratory protection according to EN143: P2

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**Appearance:**

Physical state at 20 °C: Liquid  
 Appearance: Fluid  
 Colour: Yellow  
 Odour: Chlorine  
 Odour threshold: Non-applicable \*

**Volatility:**

Boiling point at atmospheric pressure: Non-applicable \*  
 Vapour pressure at 20 °C: Non-applicable \*  
 Vapour pressure at 50 °C: 12381,01 Pa (12,38 kPa)  
 Evaporation rate at 20 °C: Non-applicable \*

**Product description:**

Density at 20 °C: 1103 kg/m<sup>3</sup>  
 Relative density at 20 °C: Non-applicable \*  
 Dynamic viscosity at 20 °C: Non-applicable \*  
 Kinematic viscosity at 20 °C: Non-applicable \*  
 Kinematic viscosity at 40 °C: Non-applicable \*  
 Concentration: Non-applicable \*  
 pH: 13  
 Vapour density at 20 °C: Non-applicable \*  
 Partition coefficient n-octanol/water 20 °C: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Solubility in water at 20 °C: Non-applicable \*  
 Solubility properties: Highly water-soluble  
 Decomposition temperature: Non-applicable \*  
 Melting point/freezing point: Non-applicable \*  
**Flammability:**  
 Flash Point: Non Flammable (>60 °C)  
 Flammability (solid, gas): Non-applicable \*  
 Autoignition temperature: Non-applicable \*  
 Lower flammability limit: Non-applicable \*  
 Upper flammability limit: Non-applicable \*

**Particle characteristics:**

Median equivalent diameter: Non-applicable

**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties: Non-applicable \*  
 Oxidising properties: Non-applicable \*  
 Corrosive to metals: H290 May be corrosive to metals.  
 Heat of combustion: Non-applicable \*  
 Aerosols-total percentage (by mass) of flammable components: Non-applicable \*

**Other safety characteristics:**

Surface tension at 20 °C: Non-applicable \*  
 Refraction index: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	NH3, Produces toxic gases

**Other information:**

Temperatures above 30°C. Metals, leather, textiles. Contact with acids liberates toxic gas.

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Can be fatal after prolonged periods of exposure, as it releases toxic gases when it comes into contact with acids
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
sodium hypochlorite, solution ... % Cl active CAS: 7681-52-9 EC: 231-668-3	8910 mg/kg	Non-applicable	Rat
	Non-applicable	Non-applicable	
	Non-applicable	Non-applicable	
Amines, C12-18-alkyldimethyl, N-oxides CAS: 68955-55-5 EC: 931-341-1	1236 mg/kg	Non-applicable	Rat
	Non-applicable	Non-applicable	
	Non-applicable	Non-applicable	

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

**Other information**

Non-applicable

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

**Acute toxicity:**

Identification	Concentration		Species	Genus
	LC50			
sodium hypochlorite, solution ... % Cl active CAS: 7681-52-9 EC: 231-668-3	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
Sodium hydroxide CAS: 1310-73-2 EC: 215-185-5	LC50	189 mg/L (48 h)	Leuciscus idus	Fish
	EC50	33 mg/L	Crangon crangon	Crustacean
	EC50	Non-applicable		
Amines, C12-18-alkyldimethyl, N-oxides CAS: 68955-55-5 EC: 931-341-1	LC50	1,26 mg/L (96 h)	Danio rerio	Fish
	EC50	2,4 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0,143 mg/L (72 h)	Desmodesmus subspicatus	Algae

**Chronic toxicity:**

Identification	Concentration		Species	Genus
	NOEC			
Amines, C12-18-alkyldimethyl, N-oxides CAS: 68955-55-5 EC: 931-341-1	NOEC	0,495 mg/L	Pimephales promelas	Fish
	NOEC	0,7 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**

**Substance-specific information:**

Identification	Degradability		Biodegradability	
	BOD5	Non-applicable	Concentration	15.7 mg/L
Amines, C12-18-alkyldimethyl, N-oxides CAS: 68955-55-5 EC: 931-341-1	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	80 %

**12.3 Bioaccumulative potential:**

Not available

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
	Koc	1525	Henry	0E+0 Pa·m <sup>3</sup> /mol
Amines, C12-18-alkyldimethyl, N-oxides CAS: 68955-55-5 EC: 931-341-1	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

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

Product fails to meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product fails to meet the criteria.

**12.7 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

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Safety data sheet

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**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
07 04 03*	organic halogenated solvents, washing liquids and mother liquors	Dangerous

**Type of waste (Regulation (EU) No 1357/2014):**

HP14 Ecotoxic, HP12 Release of an acute toxic gas, HP8 Corrosive

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2021 and RID 2021:



- 14.1 UN number or ID number:** UN1791
- 14.2 UN proper shipping name:** HYPOCHLORITE SOLUTION
- 14.3 Transport hazard class(es):** 8  
Labels: 8
- 14.4 Packing group:** II
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**  
Special regulations: 521  
Tunnel restriction code: E  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 40-20:



- 14.1 UN number or ID number:** UN1791
- 14.2 UN proper shipping name:** HYPOCHLORITE SOLUTION
- 14.3 Transport hazard class(es):** 8  
Labels: 8
- 14.4 Packing group:** II
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions for user**  
Special regulations: Non-applicable  
EmS Codes: F-A, S-B  
Physico-Chemical properties: see section 9  
Limited quantities: 1 L  
Segregation group: SGG8
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2023:

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**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number or ID number:** UN1791
- 14.2 UN proper shipping name:** HYPOCHLORITE SOLUTION
- 14.3 Transport hazard class(es):** 8  
Labels: 8
- 14.4 Packing group:** II
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**  
Physico-Chemical properties: see section 9
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

**SECTION 15: REGULATORY INFORMATION**

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

Composition of the active ingredients (Regulation (EU) No 528/2012): sodium hypochlorite, solution ... % Cl active (4.95%)  
 Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable  
 Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable  
 Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable  
 Article 95, REGULATION (EU) No 528/2012: sodium hypochlorite, solution ... % Cl active (Product-type 1, 2, 3, 4, 5, 11, 12)  
 REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Seveso III:**

Section	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS	100	200

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:  
 —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,  
 —tricks and jokes,  
 —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation  
 Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

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### SECTION 16: OTHER INFORMATION (continued)

H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.  
H410: Very toxic to aquatic life with long lasting effects.

#### **Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### **CLP Regulation (EC) No 1272/2008:**

Acute Tox. 4: H302 - Harmful if swallowed.  
Aquatic Acute 1: H400 - Very toxic to aquatic life.  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Eye Dam. 1: H318 - Causes serious eye damage.  
Met. Corr. 1: H290 - May be corrosive to metals.  
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  
Skin Irrit. 2: H315 - Causes skin irritation.  
STOT SE 3: H335 - May cause respiratory irritation.

#### **Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### **Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

#### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

#### **Other information:**

Classification procedure: Calculation method

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -