SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name
CLEAN N FRESH THICK BLEACH ORIGINAL

Product No.0016136168

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For cleaning and bleaching of toilet bowls

Uses advised against: Do not mix with other household chemicals particularly those containing acids.

1.3 Details of the supplier of the safety data sheet

Manufacturer
McBride Plc MIDDLETON
Middleton Way, Middleton
M24 4DP MANCHESTER
UK

Telephone: + 44 (0) 161 653 9037

Website: http://www.detergentinfo.com
E-mail: product.legislation@mcbride.eu

1.4 Emergency telephone number:

UK + 44 (0) 161 653 9037, ROI 01 809 2166 8am-10pm 7 days a week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards		
Corrosive to metal	Category 1	H290: May be corrosive to metals.
Health Hazards		
Skin corrosion	Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.
Environmental Hazards		
Acute hazards to the aquatic environment	Category 1	H400: Very toxic to aquatic life.

Chronic hazards to the aquatic environment	Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label Elements

Contains:
SODIUM HYPOCHLORITE
SODIUM LAURETH SULFATE
SODIUM HYDROXIDE

Signal Word: Danger

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

Precautionary Statements

General advice:
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.

Prevention:
P280: Wear protective gloves/protective clothing/eye protection/face protection. P234: Keep only in original packaging.
P273: Avoid release to the environment.

Response:
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/ physician.
P390: Absorb spillage to prevent material damage.

Storage:
P405: Store locked up.

Disposal:
P501: Dispose of contents/container in accordance with local requirements for domestic waste disposal.

Supplemental information

EUH206: Warning! Do not use together with other products. May release dangerous gases (chlorine).

2.3 Other hazards

PBT/vPvB data
Based on available data, the classification criteria are not met.

Endocrine Disruption-Toxicity
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine Disruption-Ecotoxicity
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
SODIUM HYPOCHLORITE	3 - <5%	7681-52-9	231-668-3	01-2119488154-34;	Aquatic Toxicity (Acute): 10; Aquatic Toxicity (Chronic): 1	
SODIUM LAURETH SULFATE	1 - <3%	9004-82-4		No data available.	No data available.	
SODIUM HYDROXIDE	0,5 - <1%	1310-73-2	215-185-5	01-2119457892-27;	No data available.	#
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	0,1 - <1%	68955-55-5	273-281-2	01-2119489396-21;	Aquatic Toxicity (Acute): 1	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# This substance has workplace exposure limit(s).
This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
SODIUM HYPOCHLORITE	Classification: Met. Corr.: 1: H290; STOT SE: 3: H335; Eye Dam.: 1: H318; Skin Corr.: 1B: H314; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410; Supplemental label information: None known.	No data available.

	Specific concentration limit: , >= 5,000000 %; Specific target organ toxicity - single exposure Category 3, >= 20,000000 %; Skin corrosion Category 1, >= 5,000000 %; Serious eye damage Category 1, >= 3,000000 %; Skin irritation Category 2, >= 1,000000 %; Serious eye irritation Category 2, >= 1,000000 %; Acute toxicity, oral: None known. Acute toxicity, inhalation: None known. Acute toxicity, dermal: None known.	
SODIUM LAURETH SULFATE	Classification: Skin Irrit.: 2: H315; Eye Dam.: 1: H318; Aquatic Chronic: 3: H412; Supplemental label information: None known. Specific concentration limit: Serious eye damage Category 1, 10,000000 %; Serious eye irritation Category 2, 5,000000 %; Acute toxicity, oral: None known. Acute toxicity, inhalation: None known. Acute toxicity, dermal: None known.	No data available.
SODIUM HYDROXIDE	Classification: Met. Corr.: 1: H290; Skin Corr.: 1A: H314; Supplemental label information: None known. Specific concentration limit: Skin corrosion Sub-category 1A, >= 5,000000 %; Skin irritation Category 2, 0,500000 - < 2,000000 %; Serious eye irritation Category 2, 0,500000 - < 2,000000 %; Skin corrosion Sub-category 1B, 2,000000 - < 5,000000 %; Acute toxicity, oral: None known. Acute toxicity, inhalation: None known. Acute toxicity, dermal: None known.	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	Classification: Acute Tox.: 4: H302; Skin Irrit.: 2: H315; Eye Dam.: 1: H318; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 846,000000 mg/kg Acute toxicity, inhalation: None known. Acute toxicity, dermal: None known.	No data available.

CLP: Regulation No. 1272/2008.
The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of necessary first-aid measures

Inhalation: Move to fresh air.

Skin Contact: Flush skin thoroughly with water.

Eye contact: Get medical attention immediately. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

Ingestion: Rinse mouth thoroughly. Do NOT induce vomiting. Seek medical attention.

Personal Protection for First-aid Responders: No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Causes severe burns.

Hazards: No special precautionary health measures should be needed under anticipated conditions of use.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting procedures: Wear self-contained breathing apparatus and protective clothing.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Avoid contact with eyes and prolonged or repeated contact with skin. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

6.1.1 For non-emergency personnel: See Section 8 of the SDS for Personal Protective Equipment.

6.1.2 For emergency responders: No data available.

6.2 Environmental Precautions: Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up: Dike far ahead of larger spill for later recovery and disposal. Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4 Reference to other sections: No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures (e.g. Local and general ventilation): No data available.

Safe handling advice: Do not get in eyes. Wash hands thoroughly after handling. Use only as directed. Provide adequate ventilation. Avoid contact with skin.

Contact avoidance measures: No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Store away from incompatible materials. Store in original tightly closed container.

Safe packaging materials: No data available.

7.3 Specific end use(s): For cleaning and bleaching of toilet bowls

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
SODIUM HYDROXIDE	STEL	2,000000 mg/m3	Ireland. OELVs, Schedule 1 (Code of Practice for Chemical Agents Regulations), as amended

			(2011)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values
No biological exposure limits noted for the ingredient(s).

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Use approved safety goggles or face shield.

Hand Protection: Material: Use suitable protective gloves if risk of skin contact.

Skin and Body Protection: No data available.

Respiratory Protection: Not relevant, due to the form of the product.

Hygiene measures: Do not get in eyes. Avoid contact with skin. Wash hands thoroughly after handling.

Environmental Controls: No eSDS available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: Colorless

Odor: green - fresh

Odor Threshold: No data available.

Freezing point: < 32,00 °F/< 0,00 °C

Boiling Point: > 158,00 °F/> 70,00 °C

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: No data available.

Explosive limit - lower: No data available.

Flash Point: > 199,40 °F/93,00 °C

Self Ignition Temperature: No data available.

Decomposition Temperature: No data available.

pH: > 11,50

Viscosity

Dynamic viscosity:	No data available.
Kinematic viscosity:	37,500 mm2/s
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	No data available.
Solubility (other):	No data available.
Dissolution Rate:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Dispersion Stability:	No data available.
Vapor pressure:	No data available.
Relative density:	1,0770
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.

9.2 Other information

Explosive properties:	Not classified
Metal Corrosion:	> 6,26 mm/a
VOC Content:	EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: 45,99 g/l ~4,60 % (calculated)

SECTION 10: Stability and reactivity

10.1	**Reactivity:**	Stable under normal temperature conditions and recommended use.
10.2	**Chemical Stability:**	Material is stable under normal conditions.
10.3	**Possibility of hazardous reactions:**	None under normal conditions.
10.4	**Conditions to avoid:**	Avoid heat or contamination. Do not freeze.
10.5	**Incompatible Materials:**	Strong acids. Strong oxidizing substances. Strong bases.
10.6	**Hazardous Decomposition Products:**	By fire, toxic gases may be formed (COx, NOx).

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	None under normal conditions.
Skin Contact:	Causes severe skin burns.
Eye contact:	Causes serious eye damage.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	Not classified for acute toxicity based on available data.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	LD 50 (Rat): 846,000000 mg/kg

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Inhalation

Product:	Not classified for acute toxicity based on available data.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Repeated dose toxicity

Product:	No data available.
Components:	
SODIUM HYPOCHLORITE	No data available.

SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Skin Corrosion/Irritation:

Product: Causes severe burns.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Respiratory or Skin Sensitization:

Product: Based on available data, the classification criteria are not met.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Germ Cell Mutagenicity

In vitro

Product: Based on available data, the classification criteria are not met.

Components:

SODIUM HYPOCHLORITE	No data available.

SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

In vivo

Product: Based on available data, the classification criteria are not met.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Carcinogenicity

Product: No data available.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Reproductive toxicity

Product: No data available.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.

SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Aspiration Hazard

Product: Based on available data, the classification criteria are not met.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data.

Components:

SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.

AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Aquatic Invertebrates

Product:	No data.
Components:	
SODIUM HYPOCHLORITE	EC 50 (Ceriodaphnia dubia, 48,0 h): 35,000000 µg/l Experimental result, Key study
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	EC 50 (Green algae (Scenedesmus acutus), 72,00 h): 0,2400000 mg/l (Static)

Toxicity to microorganisms

Product:	No data available.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Aquatic Invertebrates

Product:	No data.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
SODIUM HYPOCHLORITE	NOEC (Algae (Pseudokirchneriella subcapitata), 72,00 h): 0,0054000 mg/l (Static)
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	NOEC (Green algae (Scenedesmus acutus), 72,00 h): 0,0625000 mg/l (calculated)

Toxicity to microorganisms

Product:	No data available.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	The surfactant(s) contained in this mixture comply with biodegradability criteria as laid down in regulations (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member state. The other components of this mixture are either environmentally inert or absorbed onto sewage and sediment etc or will biodegrade to substances which are likely to be of low environmental impact when the mixture is used as directed.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.

AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

BOD/COD Ratio

Product:	No data available.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	The product is not bioaccumulating.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

12.4 Mobility in soil:

Product	No data available.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

12.5 Results of PBT and vPvB assessment:

Product	Based on available data, the classification criteria are not met.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

12.6 Endocrine disrupting properties:

Product:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Components:	
SODIUM HYPOCHLORITE	No data available.
SODIUM LAURETH SULFATE	No data available.
SODIUM HYDROXIDE	No data available.
AMINES, C12-18-ALKYLDIMETHYL, N-OXIDES	No data available.

12.7 Other adverse effects:

Other hazards

Product:	Very toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Dispose of contents/container in accordance with local requirements for domestic waste disposal.
Disposal methods:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Do not allow to enter drains, sewers or watercourses.
Contaminated Packaging:	No data available.

SECTION 14: Transport information

ADR

14.1	UN number or ID number:	UN 1791
14.2	UN Proper Shipping Name:	HYPOCHLORITE SOLUTION

14.3	Transport Hazard Class(es)	
	Class:	8
	Label(s):	8
	Hazard No. (ADR):	80
	Tunnel restriction code:	(E)
14.4	Packing Group:	III
	Limited quantity	5,00L
	Excepted quantity	PIN for exception quantity

ADN

14.1 UN number or ID number:	UN 1791
14.2 UN Proper Shipping Name:	HYPOCHLORITE SOLUTION
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
Hazard No. (ADR):	–
14.4 Packing Group:	III
Limited quantity	5,00L
Excepted quantity	None.
14.5 Special precautions for user:	None.

RID

14.1	UN number or ID number:	UN 1791
14.2	UN Proper Shipping Name:	HYPOCHLORITE SOLUTION
14.3	Transport Hazard Class(es)	
	Class:	8
	Label(s):	8
	Hazard No. (ADR):	80
14.4	Packing Group:	III
	Limited quantity	5,00L
	Excepted quantity	PIN for exception quantity
14.5	Environmental Hazards	
	Environmentally Hazardous:	No
	Marine Pollutant:	Yes
14.6	Special precautions for user:	None.

IMDG

14.1	UN number or ID number:	UN 1791
14.2	UN Proper Shipping Name:	HYPOCHLORITE SOLUTION
14.3	Transport Hazard Class(es)	
	Class:	8
	Label(s):	8
	EmS No.:	F-A, S-B
14.4	Packing Group:	III
	Limited quantity	5,00L
	Excepted quantity	PIN for exception quantity
14.5	Environmental Hazards	
	Environmentally Hazardous:	No
	Marine Pollutant:	Yes
14.6	Special precautions for user:	None.

IATA

14.1	UN number or ID number:	UN 1791
14.2	UN Proper Shipping Name:	Hypochlorite solution
14.3	Transport Hazard Class(es)	
	Class:	8
	Label(s):	8
14.4	Packing Group:	III
	Passenger and cargo aircraft :	852
	Limited quantity	1,00L
	Excepted quantity	PIN for exception quantity
14.5	Environmental Hazards	
	Environmentally Hazardous:	No
	Marine Pollutant:	Yes
14.6	Special precautions for user:	None.
	Passenger and cargo aircraft:	Allowed. 852
	Cargo aircraft only :	Allowed. 856

14.7 Maritime transport in bulk according to IMO instruments: Not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

None present or none present in regulated quantities.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: None present or none present in regulated quantities.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:
EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:
None present or none present in regulated quantities.

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:
None present or none present in regulated quantities.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

IR_OEL:	Ireland. OELVs, Schedule 1 (Code of Practice for Chemical Agents Regulations), as amended
IR_OEL / STEL:	Short Term Exposure Limit (STEL):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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; EIGA - European Industrial Gases Association; 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; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United

Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data: No data available.

Wording of the statements in section 2 and 3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Met. Corr. 1, H290
Skin Corr. 1, H314
Eye Dam. 1, H318
Aquatic Acute 1, H400
Aquatic Chronic 2, H411

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.