

Chemipro OXI

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

1.1. Product identifier

Product name : Chemipro OXI
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004
 Bleaching agent

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Brouwland
 Korpelsesteenweg 86
 B-3581 Beverlo
 ☎ +32 11 40 14 08
 quality@brouwland.com

1.4. Emergency telephone number

24h/24h:

+32 14 58 45 45 (BIG) (Telephone advice: English, French, German, Dutch)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Ox. Sol.	category 3	H272: May intensify fire; oxidiser.
Acute Tox.	category 4	H302: Harmful if swallowed.
Eye Dam.	category 1	H318: Causes serious eye damage.

2.2. Label elements



Contains: sodium carbonate peroxyhydrate

Signal word Danger

H-statements

H272 May intensify fire; oxidiser.
 H302 Harmful if swallowed.
 H318 Causes serious eye damage.

P-statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P264 Wash hands thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Chemipro OXI

P301 + P312
P501

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Dispose of container in accordance with local regulation.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
disodium carbonate, compound with hydrogen peroxide (2:3) 01-2119457268-30	15630-89-4 239-707-6	C≥50 %	Ox. Sol. 3; H272 Acute Tox. 4; H302 Eye Dam. 1; H318	(1)(8)	Component
sodium carbonate 01-2119485498-19	497-19-8 207-838-8	2.5≤ C≤ 5 %	Eye Irrit. 2; H319	(1)	Component

(1) For H-statements in full: see heading 16

(8) Specific concentration limits, see heading 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:

AFTER INHALATION OF DUST: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

After skin contact:

No effects known.

After eye contact:

Corrosion of the eye tissue. Inflammation/damage of the eye tissue.

After ingestion:

Nausea. Vomiting.

4.2.2 Delayed symptoms

If applicable and available it will be listed below.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Class A foam extinguisher, Water (quick-acting extinguisher, reel).

Major fire: Water, Class A foam.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

Publication date: 2017-06-29

Chemipro OXI

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent dust cloud formation. No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product. Dam up the solid spill. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Prevent dust cloud formation. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in a cool area. Keep out of direct sunlight. Store in a dry area. Keep only in the original container. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, combustible materials, oxidizing agents, (strong) acids, (strong) bases, metals, organic materials, water/moisture.

7.2.3 Suitable packaging material:

Stainless steel, LDPE (Low Density Poly Ethylene).

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

Publication date: 2017-06-29

Chemipro OXI

disodium carbonate, compound with hydrogen peroxide (2:3)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	5 mg/m ³	
	Long-term local effects dermal	12.8 mg/cm ²	
	Acute local effects dermal	12.8 mg/cm ²	

sodium carbonate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	10 mg/m ³	

DNEL/DMEL - General population

disodium carbonate, compound with hydrogen peroxide (2:3)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects dermal	6.4 mg/cm ²	
	Acute local effects dermal	6.4 mg/cm ²	

sodium carbonate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Acute local effects inhalation	10 mg/m ³	

PNEC

disodium carbonate, compound with hydrogen peroxide (2:3)

Compartments	Value	Remark
Fresh water	0.035 mg/l	
Aqua (intermittent releases)	0.035 mg/l	
Marine water	0.035 mg/l	
STP	16.24 mg/l	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Dust production: dust mask with filter type P2. Respiratory protection not required in normal conditions.

b) Hand protection:

Gloves.

- materials (good resistance)

PVC, neoprene, rubber.

c) Eye protection:

Safety glasses. In case of dust production: protective goggles.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Solid
Odour	Odourless
Odour threshold	Not applicable
Colour	White
Particle size	No data available
Explosion limits	No data available
Flammability	Non combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable

Publication date: 2017-06-29

Chemipro OXI

Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	Water ; 150 g/l ; 20 °C
Relative density	2.01 - 2.16 ; 20 °C
Decomposition temperature	70 - 75 °C
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	May intensify fire; oxidiser.
pH	10.4 - 10.6 ; 10 g/l ; 20 °C

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

May intensify fire; oxidiser. Substance has basic reaction.

10.2. Chemical stability

Unstable on exposure to heat. Unstable on exposure to moisture.

10.3. Possibility of hazardous reactions

Decomposes slowly: oxidation resulting in increased fire or explosion risk. This reaction is accelerated on exposure to water (moisture) and temperature rise.

10.4. Conditions to avoid

Avoid raising dust. Keep away from naked flames/heat.

10.5. Incompatible materials

Combustible materials, oxidizing agents, (strong) acids, (strong) bases, metals, organic materials, water/moisture.

10.6. Hazardous decomposition products

Reacts with many compounds: oxidation resulting in increased fire or explosion risk. Upon combustion: CO and CO₂ are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

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No (test)data on the mixture available

Classification is based on the relevant ingredients

disodium carbonate, compound with hydrogen peroxide (2:3)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	EPA OPP 81-1	1034 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to EPA OPP 81-2	> 2000 mg/kg	24 h	Rabbit (male/female)	Experimental value	
Inhalation						Not relevant, expert judgement	

sodium carbonate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		2800 mg/kg		Rat (male/female)	Experimental value	
Dermal	LD50		> 2000 mg/kg		Rabbit	Experimental value	
Inhalation (aerosol)	LC50		2.30 mg/l	2 h	Rat (male)	Experimental value	

Conclusion

Harmful if swallowed.

Not classified as acute toxic in contact with skin

Not classified as acute toxic if inhaled

Corrosion/irritation

Chemipro OXI

No (test)data on the mixture available

Publication date: 2017-06-29

Chemipro OXI

Classification is based on the relevant ingredients

disodium carbonate, compound with hydrogen peroxide (2:3)

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405		72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	Equivalent to EPA OPP 81-5	4 h		Rabbit	Experimental value	

sodium carbonate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	EPA 16 CFR 1500.42		1; 2; 3; 4; 7; 10; 14 days	Rabbit	Experimental value	
Eye	Highly irritating	Equivalent to OECD 405		1; 24; 48; 72; 168 hours	Rabbit	Experimental value	
Dermal	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Inhalation (aerosol)	Slightly irritating					Literature	

Conclusion

Causes serious eye damage.

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

Chemipro OXI

No (test)data on the mixture available

Judgement is based on the relevant ingredients

disodium carbonate, compound with hydrogen peroxide (2:3)

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	US EPA	48 h		Guinea pig (male/female)	Experimental value	

sodium carbonate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin						Data waiving	

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

Chemipro OXI

No (test)data on the mixture available

Judgement is based on the relevant ingredients

sodium carbonate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation								Data waiving

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

Chemipro OXI

No (test)data on the mixture available

sodium carbonate

Result	Method	Test substrate	Effect	Value determination
Negative		Escherichia coli		Experimental value
Negative	OECD 471	Bacteria (S.typhimurium)		Read-across

Mutagenicity (in vivo)

Chemipro OXI

Publication date: 2017-06-29

Chemipro OXI

No (test)data on the mixture available

Judgement is based on the relevant ingredients

sodium carbonate

Result	Method	Exposure time	Test substrate	Organ	Value determination
					Data waiving

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

Chemipro OXI

No (test)data on the mixture available

Judgement is based on the relevant ingredients

disodium carbonate, compound with hydrogen peroxide (2:3)

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity								Not relevant, expert judgement
Effects on fertility								Not relevant, expert judgement

sodium carbonate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Developmental toxicity study	≥ 245 mg/kg bw/day		Rat	No effect		Experimental value
Maternal toxicity	NOAEL		≥ 245 mg/kg bw/day		Rat	No effect		Experimental value
Effects on fertility								Data waiving

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data on the mixture available

SECTION 12: Ecological information

12.1. Toxicity

Chemipro OXI

No (test)data on the mixture available

disodium carbonate, compound with hydrogen peroxide (2:3)

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	US EPA	70.7 mg/l	48 h	Pimephales promelas	Semi-static system	Fresh water	Experimental value
Acute toxicity crustacea	EC50	US EPA	4.9 mg/l	48 h	Daphnia pulex	Semi-static system	Fresh water	Experimental value

Publication date: 2017-06-29

Chemipro OXI

sodium carbonate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Other	300 mg/l	96 h	Lepomis macrochirus	Static system	Fresh water	Experimental value
Acute toxicity crustacea	EC50	Other	200 mg/l - 227 mg/l	48 h	Ceriodaphnia sp.	Semi-static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50		242 mg/l	5 day(s)	Algae			Experimental value

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

Biodegradability: not applicable

12.3. Bioaccumulative potential

Chemipro OXI

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

disodium carbonate, compound with hydrogen peroxide (2:3)

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

sodium carbonate

Log Kow

Method	Remark	Value	Temperature	Value determination
		-6.19		Estimated value

Conclusion

Bioaccumulation: not applicable

12.4. Mobility in soil

No (test) data on mobility of the components available

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

Chemipro OXI

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

16 09 03* (oxidising substances: peroxides, for example hydrogen peroxide). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Publication date: 2017-06-29

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Waste material code packaging (Directive 2008/98/EC).
15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

UN number	3378
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14.2. UN proper shipping name

Proper shipping name	Sodium carbonate peroxyhydrate, mixture
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14.3. Transport hazard class(es)

Hazard identification number	50
Class	5.1
Classification code	O2

14.4. Packing group

Packing group	III
Labels	5.1

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities	Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1. UN number

UN number	3378
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14.2. UN proper shipping name

Proper shipping name	Sodium carbonate peroxyhydrate, mixture
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14.3. Transport hazard class(es)

Hazard identification number	50
Class	5.1
Classification code	O2

14.4. Packing group

Packing group	III
Labels	5.1

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities	Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1. UN number

UN number	3378
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14.2. UN proper shipping name

Proper shipping name	Sodium carbonate peroxyhydrate, mixture
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14.3. Transport hazard class(es)

Class	5.1
Classification code	O2

14.4. Packing group

Packing group	III
Labels	5.1

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities	Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14.1. UN number

UN number	3378
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Publication date: 2017-06-29

Chemipro OXI

14.2. UN proper shipping name

Proper shipping name	Sodium carbonate peroxyhydrate, mixture
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14.3. Transport hazard class(es)

Class	5.1
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14.4. Packing group

Packing group	III
Labels	5.1

14.5. Environmental hazards

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6. Special precautions for user

Special provisions	967
Limited quantities	Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Annex II of MARPOL 73/78	Not applicable
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Air (ICAO-TI/IATA-DGR)

14.1. UN number

UN number	3378
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14.2. UN proper shipping name

Proper shipping name	Sodium carbonate peroxyhydrate, mixture
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14.3. Transport hazard class(es)

Class	5.1
-------	-----

14.4. Packing group

Packing group	III
Labels	5.1

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities: maximum net quantity per packaging	10 kg

SECTION 15: Regulatory information

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

European legislation:

Ingredients according to Regulation (EC) No 648/2004 and amendments
 ≥30% oxygen-based bleaching agents

European drinking water standards (Directive 98/83/EC)

disodium carbonate, compound with hydrogen peroxide (2:3)

Parameter	Parametric value	Note	Reference
Sodium	200 mg/l		Listed in Annex I, Part C, of Directive 98/83/EC on the quality of water intended for human consumption.

sodium carbonate

Parameter	Parametric value	Note	Reference
Sodium	200 mg/l		Listed in Annex I, Part C, of Directive 98/83/EC on the quality of water intended for human consumption.

National legislation Belgium

Chemipro OXI

No data available

National legislation The Netherlands

Chemipro OXI

Waterbezwaarlijkheid	B (2)
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National legislation France

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No data available

National legislation Germany

Chemipro OXI

Publication date: 2017-06-29

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WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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sodium carbonate

TA-Luft	5.2.1
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National legislation United Kingdom

Chemipro OXI

No data available

Other relevant data

Chemipro OXI

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H-statements referred to under headings 2 and 3:

H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

(*)	INTERNAL CLASSIFICATION BY BIG
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

Specific concentration limits CLP

disodium carbonate, compound with hydrogen peroxide (2:3)	C ≥ 25 %	Eye Damage 1;H318	ECHA
	7.5 % ≤ C < 25 %	Eye Irrit 2;H319	ECHA

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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