

# Safety data sheet

Subject to regulation (EC) no. 1907/2006 (changed through regulation (EU) no. 403/2010)

**Created on:** 10.12.2019 Ute Klümper Product management

**Adapted on:**

**Valid from:** 01.01.2020

**Version:** 1 **Replaced version:** –

## 1. Name of the compound and the company

### 1.1 Product identifier

Trade name: CONTI+ oXan™

Index no.: 017-011-00-1

EC no.: 231-668-3

CAS no.: 7681-52-9

EINECS no.: 231-668-3

REACH registration no.: not applicable

### 1.2 Relevant identifiable use of the compound and applications that are not recommended

- Relevant identifiable use: Biocide for the disinfection of drinking water and bathing water.
- Uses that are not recommended: No information has been identified in addition to the indicated uses which might give reasons to refrain from recommending them.

### 1.3 Details about the distributor who has created the safety data sheet.

#### Producer/Distributor

CONTI Sanitärarmaturen GmbH

Hauptstraße 98

D-35435 Wettenberg

Tel. +49 641 98221 0

Fax. +49 641 98221 50

info@conti.plus

www.conti.plus

#### Contact for technical information

Technical Support

Hotline Deutschland:

+49 180 CONTIPLUS

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kundendienst@conti.plus

### 1.4 Emergency call

+ 49 (0) 6131 19240

(GIFTINFORMATIONSZENTRUM (GIZ) der Länder Rheinland-Pfalz und Hessen in Mainz – Klinische Toxikologie)

(toxicology information centre of the counties Rhineland Palatinate and Hessen, clinical toxicology)

<http://www.giftinfo.uni-mainz.de>

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## 2. Possible risks

### 2.1 Classification of the compound

Classification subject to directive (EC) no. 1272/2008 Appendix VII (Substances): No classification, as beneath 1% of active chlorine.

Classification subject to regulation 67/548/EEC or regulation 1999/45/EC (substances or compounds): Sodium hypochlorite solution with up to 5% free chlorine and not subject to marking.

**Classification subject to ECE/TRANS/225 from 01/10/2013  
not classified as hazardous substance goods in transit, since it falls beneath 0.1, i.e. 1.0%  
of substance content**

CONTI+ oXan™ contains < 0.09% of active/free Chlorine (see 3.2)

#### 2.1.1. Corrosive effect

H290 May be corrosive to metals.

### 2.2 Identification elements

**Identification elements subject to directive( EC) no. 1272/2008 (substances) / regulation:  
1999/45/EC (compounds)**

none

**Identifiable hazardous components for labelling contains Risk information / R-phrases:**

none

**Safety information / S-phrases:**

none

**Additional identification elements:**

none

### 2.3 Other risks

The compound does not fulfil the criteria for the classification as PBT, i.e. vPvB

## 3. Composition of/Information about components

### 3.1 Substances

This product is a compound, see 3.2.

### 3.2 Compounds

Term of component: Active chlorine made of sodium hypochlorite solution electro chemically activated <0.09% of active chlorine.

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Proportion: <0.09 % pertained to active chlorine

Classification subject to regulation 67/548/EEC or regulation 1999/45/EC: inapplicable

Classification subject to directive (EC) no. 1272/2008:  
not applicable

In accordance with directive (EC) no. 1272/2008 and 67/548/EEC or regulation 1999/45/EC (substances or compounds) sodium hypochlorite solutions up to 1%, i.e. 5% of active chlorine do not need to be marked.

Substance name: Sodium chlorite

Other terms: Cooking salt, electrolysis salt

Reg.-no.: There is no registration no. for this substance since the substance is exempt from registration according to Article 2 REACH directive (EC) 1907/2006, due to it being a natural substance.

CAS-no.: 7647-14-5 pending

EINECS-no.: 231-598-3

Index-no.: not listed

REACH-registration no.: not applicable Proportion: < 0.09 %

Classification subject to regulation 67/548/EEC or regulation 1999/45/EC: No hazardous product as to the meaning of regulation 67/548/EEC

Classification subject to decree (EC) no. 1272/2008:

The product is, according to the criteria of regulations 67/548/EEC, i.e. 1999/45/EC or directive (EC) no. 1272/2008, not classified as hazardous.

### 4. First Aid Measures

#### 4.1 Descriptions of First Aid Measures

**Following inhalation** Harmless if used in the appropriate way; if feeling unwell, leave the room, supply fresh air, if complaints occur, seek out medical help

**Following skin contact** On rare occasions skin may tingle after long after long exposure; rinse with water. In cases of persistent skin irritation, seek medical help.

**Following eye contact** If feeling ill, rinse with water. If complaints persist, seek medical help.

**Following ingestion** No special measures required, if necessary, drink water, if complaints persist, seek medical help.

#### 4.2 Most important acute and belated symptoms or effects

No additional relevant information available.

#### 4.3 Directions for immediate medical aid or special treatment

No additional relevant information available

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### 5. Measures for fire safety

#### 5.1 Extinguishing agent

Not applicable, product is not flammable

#### 5.2 Special dangers linked to the substances or compounds

None known

#### 5.3 Special information concerning the extinguishing of a fire

No additional information

### 6. Measures in case of accidental spillage

#### 6.1 Personal safety measures, protective clothing and emergency measures

If necessary, rinse with water.

#### 6.2 Measures for the safety of the environment

No special measures necessary

#### 6.4 Reference to other sections

none

### 7. Handling and storage

#### 7.1 Protective measures for safe handling

No special measures required

##### Measures to protect against fire and explosions

No special measures required

##### Measures for the prevention of dusts and aerosols

No special measures required

##### Measures to ensure the safety of the environment

No special measures required

##### General measures for hygiene

No special measures required

#### 7.2 Conditions for safe storage of taking the safety of the environment into account Information concerning conditions of storage

No special requirements

##### Requirements concerning storage space and containers

No special requirements

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## Storage class

not applicable

### 7.3 Specific requirements for end use; Brand and sector specific recommendations:

The drinking water directive and the specific requirements for bathing water are to be adhered to in the recommended usage of CONTI+ oXan™.

## 8 Limitation and supervision of exposure / Personal safety equipment

### 8.1 Parameters that need to be adhered to

#### 8.1.1 Limits for the exposure at the work place / or biological limits Arbeitsplatzgrenzwerte (AWG) Germany, Workplace limits

No special measures when used according to instructions, see point 7

#### 8.1.2 DNEL- and PNEC values

**Substance name: active chlorine made of sodium hypochlorite**

Inhalation, long term exposure, systemic effect	DNEL	1,55 mg/m <sup>3</sup>	staff
Inhalation, short term exposure, systemic effect	DNEL	3,1 mg/m <sup>3</sup>	staff
Inhalation, long term exposure, systemic effect	DNEL	1,55 mg/m <sup>3</sup>	consumer
Inhalation, short term exposure, systemic effect	DNEL	3,1 mg/m <sup>3</sup>	consumer
Oral, long term exposure, systemic effect	DNEL	0,26 mg/kg	consumer
Dermal, long term exposure, local effect	DNEL	0,5 % wt	staff
Dermal, long term exposure, local effect	DNEL	0,5 % wt	consumer
Purification Plant	PNEC	0,03 mg/l	
Sea Water	PNEC	0,000042 mg/l	
Fresh Water	PNEC	0,00021 mg/l	
Sporadic Release	PNEC	0,00026 mg/l	

Substance name: Sodium chlorite; CAS-Nr.: 7647-14-5

DNEL: No information available.

PNEC-values: No information available.

#### 8.1.3 Control-Banding (e.g. ILO, EMKG)

Relevant parameters/classifications

No information possible.

Relevant Safety Guide

No information possible.

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### 8.2 Limitation and supervision of exposure

Due to the way and handling of the use there is no dangerous exposure to persons.

#### 8.2.1 Appropriate technical control device

Automatic injection of dosage

#### 8.2.2 Individual safety measures / Protective equipment

No special protective equipment is necessary.

#### 8.2.3 Limitation and control of exposure to the environment

Due to the way and handling of application there is no exposure to the environment.

## 9. Physical and chemical characteristics

### 9.1 Details concerning the physical and chemical characteristics

Appearance

- Condition of aggregation: liquid
- Colour: light, pellucid

Odour: faintly of chloramine

Odour threshold: No information available.

pH-value: 7.0 give or take 0.1

Melting point/freezing point: not determinable, solution with a small amount of cooking salt

Initial boiling point in the boiling range: not determinable, solution with a small amount of cooking salt

Flash point: not applicable

Evaporation speed: No information available

Flammability (as a solid, gas): not applicable

upper/lower limits of flammability and point of explosion: not applicable

vapour pressure: 20mbar at 20°C

vapour density: No information available

relative density: 1.014 g/cm<sup>3</sup> at 20°C

solubility: Completely mixable with water.

Distribution coefficient: c

n-Octanal/Water: not applicable

spontaneous ignition point: not applicable

decomposition temperature: decomposes when boiled

Viscosity: No information available

Explosive characteristics: No information available

Oxidising characteristics: No information available

### 9.2 Additional Information

No additional information necessary.

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### 10 Stability and reactivity

#### 10.1 Reactivity

No reactivity if instructions are adhered to.

#### 10.2 Chemical stability

The product is stable within the parameters of its intended use.

#### 10.3 Possible dangerous reactions

Exothermal reactions with acids possible, creation of chlorine gas.

#### 10.4 Conditions that need to be avoided

Heat build-up, direct sunlight

#### 10.5 Incompatible substances

Can react with strong acids in certain conditions.

#### 10.6 Dangerous decomposition products

Can produce small amounts of Chlorine gas in certain circumstances

### 11. Toxicological details

#### 11.1 Details concerning toxicological effects

**For compounds concerning the following effects:**

##### **Acute toxicity sodium hypochlorite**

LD50 rat, oral: > 5,000 mg/kg LD50 mouse, oral: > 5,800 mg/kg

LD50 rabbit, dermal: > 5,000 mg/kg

##### **Acute toxicity sodium chlorite**

LD50 rat, oral: > 5,000 mg/kg

LD50 rabbit, dermal: > 10,000 mg/kg

##### **Irritation**

A slight irritation is possible.

##### **Acidic burn**

A slight acidic burn is possible.

##### **Sensitisation**

No sensitisation is known.

##### **Toxicity with repeated administration**

No increased toxicity with repeated administration is known.

##### **Carcinogenic effects**

Not carcinogenic

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### **Mutagenicity**

Not mutagenetic

### **Toxicity effecting reproduction**

No toxicity effecting fertility known.

### **Symptoms and effects (delayed or chronic) with details concerning their types of exposure.**

#### **Also: Information concerning toxicokinetics, metabolism and distribution**

No details possible.

## **12. Details concerning the environment**

### **12.1 Toxicity**

Contains subject to regulation 1999/45/EC: proportion of active chlorine < 0.1 weight %

### **12.2 Persistence and degradability**

No persistence expected, decomposes into water and cooking salt when brought in contact with organic material.

### **12.3 Bioaccumulation potential**

No bioaccumulation expected, decomposes into water and cooking salt when brought in contact with organic material.

### **12.4 Mobility on the ground**

No mobility on the ground expected, decomposes into water and cooking salt on the ground.

### **12.5 Result of the PBT- and vPvB assessment**

Subject to the submitted details the criteria for PBT and vPvB are not met.

### **12.6 Other hazardous effects**

No data regarding this point is present.

## **13. Recommendations concerning the disposal**

### **13.1 Method for treatment of waste**

### **13.2 Treatment of contaminated packaging**

Completely emptied containers may be rinsed with water and disposed of using the appropriate method.

### **13.3 Disposal code subject to list of wastes directive (AVV)**

150102, packaging is made of plastic

### **13.4 Special precautions**

No special precautions are necessary.

### **13.5 Appropriate EU- or other regulations**

not applicable



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### 14. Details concerning transport

No hazardous material according to transport regulations.

#### 14.1 UN-number

not applicable

#### 14.2 Lawful UN - despatch designation ADR / RID

not applicable

**IMDG-Code / ICAO-TI / IATA-DGR**

not applicable

#### 14.3 Class of risk concerning transportation

not applicable

#### 14.4 Packaging group

Packaging group III, compounds with limited danger

#### 14.5 Dangers to the environment

Mark of substances posing a danger to the environment

Not applicable in meeting regulation 1999/45/EC: Proportion of active chlorine < 0.1 weight percentage

#### 14.6 Special precautionary instructions for the end user

Read the instructions

#### 14.7 Bulk haulage subject to appendix II of the MARPOL agreement 73/78 and subject to the IBC-code

not applicable

### 15. Legislation

#### 15.1 Regulations for safety, health, the protection of the environment / specific legislation concerning the substance or the compound

**EU - directives, e.g.**

**Directive (EC) no. 2037/2000 (substances that lead to the destruction of the ozone layer):**

Not applicable

**Directive (EC) no. 850/2004 (persistent organic hazardous substances):**

not applicable

**Directive (EC) no. 689/2008 (Import and export of dangerous chemicals):**

not applicable

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**Directive (EC) no. 648/2004 (regulations concerning detergents):**

not applicable

**Limitations subject to title VIII of the directive (EC) 1907/2006:**

not applicable

**National regulations, e.g. Water hazard class:**

Cannot be classified under the water hazard class, as proportion of endangering substance < 0.2 weight %

**Directive concerning solvents (31. BImSchV):**

not applicable

**Hazardous incident directive (12. BImSchV):**

not applicable

**Technical Instruction Air (TA-Air)**

not applicable

**Additional relevant regulations:**

Regulation 98.83/EC; drinking water directive 2001 with amendment in November 2012, DIN 19642 (Nov 2012), part 1 to 7; hygiene regulations for pools and their monitoring by the federal environment agency (2006), 2006/7/EC (2006);

**15.2 Assessment of substance safety:**

The compound has not been subjected to a safety assessment.

## **16 Other detail**

**Amendments concerning the previous information**

none

**Abbreviations**

no information

**References to literature and sources of data**

Literature on request

**Methods subject to article 9 of the directive (EC) no. 1272/2008 used for the assessment of the information for the purpose of classification:**

Classification in accordance with directive (EC) no. 1272/2008 appendix VII (conversion table)

**Wording of the R-phrases, hazard warnings, safety recommendation and or safety guidelines, which are referred to in points 2 to 15:**

not applicable

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**Subject to regulation 67/548/EEC:**

not applicable

**Subject to directive (EC) 1272/2008:**

not applicable

**Staff training:**

Undertaken when system is installed.

**CLP-Labeling of compounds (to 2015 as voluntary information in addition to the label according to RL 1999/45/EC):**

not applicable

**Additional information**

The information given relies on the up-to-date understanding of our research and has been provided to the best of our knowledge and conscience. They describe the safety precautions in connection with the concerned product. They do not represent a guaranty regarding the characteristics of the product. The attention of the end user is meant to be directed particularly to inappropriate usage of the product and the risks this might involve..