



# Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II (453/2010) - Europe

## NATURAMA Biocide

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P305 If in eyes Rinse cautiously with water for several minutes.  
P351 If in eyes Remove contact lenses, if present and easy to do.  
P338 If in eyes Continue rinsing.

### 2.3 Other hazards

#### Other hazards which do not result in classification

No additional information available

## 3 Composition/Information on Ingredients

### 3.2 Mixtures

CAS Number	Product Identifier	Classification according to Regulation (EC) No. 1272/2008 (CLP)	EC List Number	Percentage %
7782-50-5	Hypochlorous Acid (Active Substance)	Not classified	231-959-5	0.025 %
77-92-9	Citric Acid	Eye Irritant 2	201-069-1	< 0.5 %
68515-73-1	D-Glucopyranose, oligomers, decyl ocytl glycosides Glucopon 215 UP	Eye Dam 1	500-220-1	< 0.1 %
5324-84-5	Sodium octane-1-sulphonate monohydrate	Skin Irrit 2 Eye Dam 1	226-195-4	< 0.1 %
7320-34-5	Tetrapotassium pyrophosphate	Skin Corr 1 Eye Dam 1	230-7885-7	< 1.5%
7732-18-5	Water (Aqua)	Not classified	231-791-2	To make 100%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

Type	1	Substance classified with a health or environmental hazard
	2	Substance with a workplace exposure limit
	3	Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
	4	Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

## 4 First aid measures

### 4.1 Description of first aid measures

Eye Contact	Obtain medical attention if pain or redness occurs and persists.
Inhalation	Remove from source of exposure. Seek medical advice if symptoms occur.
Skin Contact	Obtain medical attention if pain or redness occurs and persists.
Ingestion	Obtain emergency medical attention in the event of pain or discomfort Do not induce vomiting
Protection of First Aider	Wear PPE if appropriate (Refer to section 8.2)

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

#### Symptoms

Not expected to present a significant hazard under anticipated conditions of normal use. Not considered to cause sensitization. Further important symptoms and effects are so far not known.

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

#### Treatment

Treat according to symptoms (decontamination, vital functions). Toxicological information on components, where available, is given in section 11.

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### 5 Fire fighting measures

#### 5.1 Extinguishing media

Extinguishing media Non-Flammable. Use extinguisher suitable for surrounding fire.  
Unsuitable extinguishing media None known

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

Hazards from the substance or mixture In a fire or if heated, a pressure increase will occur, and the container may burst.  
Hazardous combustion products During fire toxic gases, CO and CO<sub>2</sub> are formed

#### 5.3 Advice for fire-fighters

Special precautions for fire-fighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.  
Special protective equipment for fire-fighters Fire-fighters should wear personal protective equipment as appropriate to the surrounding fire.

### 6 Accidental release measures

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

Remove unnecessary personal. Ventilate area and wear recommended personal protective equipment. See section 8.

#### 6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. Notify authorities if liquid enters sewers or public waters.

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

**Small spill:** Absorb with an inert dry material and place in an appropriate waste disposal container.  
**Large spill** Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. dry sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

### 7 Handling and storage

#### 7.1 Precautions for safe handling

Keep container tightly closed. Provide good ventilation of working area. Avoid contact with the skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated surfaces may be extremely slippery. Clean up spillages. Do not eat, drink or smoke in area where material is used or stored.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store between 5-35 Deg C. Store in original labelled containers. Keep container upright and tightly closed. Keep away from strong acids and bases. Protect from freezing.

#### 7.3 Specific end use(s)

Recommendations Not specific advice available.  
Industrial sector specific solutions Not applicable.

### 8 Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limits

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<b>Product/ingredient name</b>	<b>Exposure limit values</b>
Hypochlorous Acid (HOCL)	None All other contents are entirely non-hazardous
<b>Derived effect levels</b>	No DNEs available for the mixture.
<b>Predicted effect concentrations</b>	No PNECs available for the mixture.
<b>8.2 Exposure controls</b>	
<b>Process conditions</b>	Provide eye-wash stations
<b>Engineering Measures</b>	Wear appropriate PPE if contact is possible when product is being used. If airborne vapours or mists are generated provide adequate general and local exhaust ventilation to keep exposure below any statutory limits.
<b>Personal Protective Equipment</b>	
Respiratory protection:	Not needed in normal use.
Hand protection	Not needed for normal use.
Eye protection	Not needed in normal use.
Body protection:	Not needed in normal use.
<b>General safety and hygiene measures</b>	
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.	

## 9 Physical & chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Clear Colourless
Odour	Product specific. Slight chlorine odour.
Odour threshold	None
pH value 20 Deg C	7.0 to 7.5
Melting point/Freezing point	Not determined for the mixture.
Initial boiling point and boiling range	100.1 Deg C
Flash point	>100 deg C
Evaporation rate	Not determined for the mixture.
Flammability (solid, gas)	Not flammable
Burning time	Not flammable
Burning rate	Not flammable
Upper/lower flammability or explosive limits	Not flammable
Vapour pressure	Not determined for the mixture.
Relative density	0.990-1.010
Solubility(ies)	Readily soluble in cold and hot water
Partition coefficient: n-octanol/water	Not determined for the mixture.
Auto ignition temperature	Not determined for the mixture.
Decomposition temperature	Not determined for the mixture.
Viscosity	Not determined for the mixture.
Explosive properties	Not explosive
Oxidising properties	None
<b>9.2 Other Information</b>	No further relevant information available

## 10 Stability and Reactivity

<b>10.1 Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical Stability</b>	Stable mixture under normal conditions or storage and use.
<b>10.3 Possibility of hazardous reactions</b>	Hazardous reactions will not occur in normal storage conditions.
<b>10.4 Conditions to avoid</b>	Direct sunlight. Extremely high or low temperatures.
<b>10.5 Incompatible materials</b>	Will react with strong acids, strong bases. Chlorine gas may be released in the presence of strong acid

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<b>10.6 Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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### 11 Toxicology

#### 11.1 Information on toxicological effects

<b>Acute Toxicity</b>	Not Classified
<b>Skin Corrosion/Irritation</b>	Not Classified pH 6.5-7.5
Additional Information	Based on available data, the classification criteria are not met
<b>Serious Eye Damage/Irritation</b>	Not Classified pH 6.5-7.5
Additional Information	Based on available data, the classification criteria are not met
<b>Respiratory or Skin sensitisation</b>	Not Classified
Additional Information	Based on available data, the classification criteria are not met
<b>Germ Cell Mutagenicity</b>	Not Classified
Additional Information	Based on available data, the classification criteria are not met
<b>Carcinogenicity</b>	Not Classified
Additional Information	Based on available data, the classification criteria are not met
<b>Reproductive Toxicity</b>	Not Classified Based on available data, the classification criteria are not met
<b>STOT-Single Exposure</b>	Not Classified
Additional Information	Based on available data, the classification criteria are not met
<b>STOT-Repeated Exposure</b>	Not Classified
Additional Information	Based on available data, the classification criteria are not met
<b>Aspiration Hazard</b>	Not Classified
Additional Information	Based on available data, the classification criteria are not met
<b>Potential Adverse human health effects and symptoms</b>	Based on available data, the classification criteria are not met

### 12 Ecological information

#### 12.1 Toxicity

Ecological Toxicity data for this mixture is not available as ecological toxicity studies have not been carried out.

#### 12.2 Persistence and degradability

**Conclusion/Summary** Not determined for the mixture.

#### 12.3 Bioaccumulative potential

**Conclusion/Summary** Not determined for the mixture.

#### 12.4 Mobility in soil

**Soil/water partition coefficient (KOC)** Not determined for the mixture.

**Mobility** Not determined for the mixture.

#### 12.5 Results of PBT and vPvB assessment

**PBT** Not applicable.

**vPvB** Not applicable.

**12.6 Other adverse effects** No known significant effects or critical hazards.

### 13: Disposal considerations

#### 13.1 Waste treatment methods

**Waste from residues / unused products** Dispose of in compliance with all National, Federal, state, provincial, and local laws and regulations.  
EWC Code 07 06 99

**Empty packaging recommendation:** Dispose of observing national or local regulations. (Can be cleaned with water)

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EWC Code 20 01 39

### 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	None	None	None	None
14.2 UN proper shipping name	Not Required	Not Required	Not Required	Not Required
14.3 Transport hazard class(es):	Not considered to be hazardous for transport			
14.4 Packing group	Not Required	Not Required	Not Required	Not Required
14.5 Environmental hazards	None	None	None	None
14.6 Special precautions for user	None known	None known	None known	None known
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBCCode	Product not transported bulk tanker			
Other relevant information (ADR)	Not required			

### 15: Regulatory information

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

Ingredients according to EC Detergents Regulation 648/2004

#### 15.2 Chemical safety assessment

Chemical safety assessment carried out on the active substance

ECHA Risk Assessment HOCL - <https://echa.europa.eu/documents/10162/01359fec-bd87-9a5f-9bf8-847dbe781c35>

US EPA Hypochlorous Acid -

[https://sor.epa.gov/sor\\_internet/registry/substreg/searchandretrieve/advancedsearch/externalSearch.do?p\\_type=CASNO&p\\_value=7790-92-3](https://sor.epa.gov/sor_internet/registry/substreg/searchandretrieve/advancedsearch/externalSearch.do?p_type=CASNO&p_value=7790-92-3)

References – Active Substance – Hypochlorous Acid

### 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**Reason for revision:** Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II  
\* Indicates section(s) where changes have been made

**Full text of the R, H and EUH phrases mentioned in section 3**

#### Abbreviations and acronyms

ATE	Acute Toxicity Estimate
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
DNEL	Derived No Effect Level
EUH statement	CLP-specific Hazard statement
N/A	Not Applicable

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PNEC	Predicted No Effect Concentration
REACH No	REACH registration number, without supplier specific part



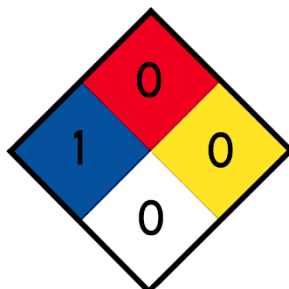
# NATURAMA BIOCIDE

UFI Code 2DFY-U058-000U-E1FM

Company Key - 1000000140705

World Health Organisation - [https://cdn.who.int/media/docs/default-source/essential-medicines/2021-eml-expert-committee/applications-for-addition-of-new-medicines/a.18\\_hypochlorous-acid.pdf?sfvrsn=35222172\\_4](https://cdn.who.int/media/docs/default-source/essential-medicines/2021-eml-expert-committee/applications-for-addition-of-new-medicines/a.18_hypochlorous-acid.pdf?sfvrsn=35222172_4)Clinical trials database - <https://clinicaltrials.gov/ct2/show/NCT04684550>

EU COMMODITY CODE

**38089490**DISINFECTANTS/STERILISATION PRODUCTS  
OTHER CHEMICAL DISINFECTANTS

UN CLASSIFICATION

NON-HAZARDOUS