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

#### 1.1 Product identifier

Product name : Topaz CL1

UFI : 0TFS-PW82-S801-R27V

Product code : 115873E

Use of the

Substance/Mixture

Cleaning product

Substance type: : Mixture

For professional users only.

Product dilution information : 5.0 %

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

Identified uses : Foam cleaner. Semi-Automatic without venting process

General purpose cleaner. Manual process

Foam cleaner. Semi-Automatic with venting process

Recommended restrictions

on use

: Reserved for industrial and professional use.

## 1.3 Details of the supplier of the safety data sheet

Company : Ecolab a.s

Innspurten 9

Postboks 6440-Etterstad, N-0605 Oslo Norway +47 22 68 18 00

NO-kundeservice@ecolab.com

# 1.4 Emergency telephone number

Emergency telephone : +4785295496

number +32-(0)3-575-5555 Trans-European

Poison Information Centre

telephone number

: +47 22 59 13 00

Date of Compilation/Revision : 05.05.2023 Version : 1.2

# **Section: 2. HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

**Product AS SOLD** 

Corrosive to metals, Category 1 H290

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Skin corrosion, Category 1 H314 Serious eye damage, Category 1 H318 Acute aquatic toxicity, Category 1 H400 Chronic aquatic toxicity, Category 2 H411

**Product AT USE DILUTION** 

Skin corrosion, Category 1 H314 Serious eye damage, Category 1 H318 Chronic aquatic toxicity, Category 3 H412

The classification of this product is based only on its extreme pH value (in accordance with current European legislation).

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

**Product AS SOLD** 

Hazard pictograms





Signal Word Danger

**Hazard Statements** H290 May be corrosive to metals.

> H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects. H411

Supplemental Hazard

Statements

**Precautionary Statements** 

: EUH031

Contact with acids liberates toxic gas.

: Prevention: P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

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/doctor.

Hazardous components which must be listed on the label:

sodium hypochlorite sodium hydroxide

Amines, C12-14 alkyldimethyl, N-oxides

**Product AT USE DILUTION** 

Hazard pictograms



Signal Word Danger

**Hazard Statements** H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

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Precautionary Statements : **Prevention:** 

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

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/doctor.

#### 2.3 Other hazards

# **Product AS SOLD**

Mixing this product with acid or ammonia releases chlorine gas.

# Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

# Product AS SOLD Hazardous components

Chemical Name	CAS-No.	Classification	Concentration
	EC-No. REACH No.	REGULATION (EC) No 1272/2008	: [%]
sodium hypochlorite	7681-52-9 231-668-3 01-2119488154-34	Nota B Skin corrosion Sub-category 1B; H314 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 1; H410  Serious eye damage/eye irritation Category 1 10 - 100 % Serious eye damage/eye irritation Category 2A 5 - < 10 % Skin corrosion/irritation Category 1B 10 - 100 % Skin corrosion/irritation Category 2 5 - < 10 %  EUH031 5 - 100 % M = 10 M(Chronic) = 1	>= 5 - < 10
sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27	Skin corrosion Category 1A; H314 Corrosive to metals Category 1; H290  Skin corrosion Category 1A H314 >= 5 % Skin corrosion Category 1B H314 2 - < 5 % Skin irritation Category 2 H315 0.5 - < 2 % Eye irritation Category 2 H319 0.5 - < 2 %	>= 3 - < 5
Amines, C12-14	308062-28-4	Acute toxicity Category 4; H302	>= 3 - < 5

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alkyldimethyl, N-oxides	01-2119490061-47	Skin irritation Category 2; H315 Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400 Chronic aquatic toxicity Category 2; H411	
		M = 1	

# Product AT USE DILUTION Hazardous components

Chemical Name	CAS-No.	Classification	Concentration	
	EC-No.	REGULATION (EC) No 1272/2008	: [%]	
	REACH No.	` '		
sodium hypochlorite	7681-52-9	Skin corrosion Sub-category 1B; H314	>= 0.25 - <	
	231-668-3	Serious eye damage Category 1; H318	0.5	
	01-2119488154-34	Acute aquatic toxicity Category 1; H400		
		Chronic aquatic toxicity Category 1; H410		
		Serious eye damage/eye irritation		
		Category 1		
		10 - 100 %		
		Serious eye damage/eye irritation		
		Category 2A		
		5 - < 10 %		
		Skin corrosion/irritation Category 1B		
		10 - 100 %		
		Skin corrosion/irritation Category 2 5 - < 10 %		
		3 - < 10 /6		
		EUH031 5 - 100 %		
		M = 10		
		M(Chronic) = 1		
Amines, C12-14	308062-28-4	Acute toxicity Category 4; H302	>= 0.1 - <	
alkyldimethyl, N-oxides	01-2119490061-47	Skin irritation Category 2; H315	0.25	
		Serious eye damage Category 1; H318 Acute aquatic toxicity Category 1; H400		
		Chronic aquatic toxicity Category 1, H400		
		Official aquatic toxicity Category 2, 11411		
		M = 1		
Substances with a workplace exposure limit :				
sodium hydroxide	1310-73-2	Skin corrosion Category 1A; H314	>= 0.1 - <	
	215-185-5	Corrosive to metals Category 1; H290	0.25	
	01-2119457892-27			
		Skin corrosion Category 1A		
		H314 >= 5 %		
		Skin corrosion Category 1B H314 2 - < 5 %		
		Skin irritation Category 2		
		H315 0.5 - < 2 %		
		Eye irritation Category 2		
		H319 0.5 - < 2 %		
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For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section: 4. FIRST AID MEASURES** 

# 4.1 Description of first aid measures

# **Product AS SOLD**

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

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In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.

Wash clothing before reuse. Thoroughly clean shoes before

reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. If conscious, give 2

glasses of water. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention

if symptoms occur.

**Product AT USE DILUTION** 

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.

Wash clothing before reuse. Thoroughly clean shoes before

reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. If conscious, give 2

glasses of water. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention

if symptoms occur.

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

See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

## **Section: 5. FIREFIGHTING MEASURES**

## **Product AS SOLD**

## 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Exposure to decomposition products may be a hazard to health.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

nitrogen oxides (NOx) Oxides of phosphorus

metal oxides

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## 5.3 Advice for firefighters

for firefighters

Special protective equipment : Use personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or

explosion do not breathe fumes.

## Section: 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

#### **Product AS SOLD**

Advice for non-emergency personnel

: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency

responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

### **Product AT USE DILUTION**

Advice for non-emergency personnel

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

## 6.2 Environmental precautions

**Product AS SOLD** 

Environmental precautions : Do not allow contact with soil, surface or ground water.

**Product AT USE DILUTION** 

**Environmental precautions** : Do not allow contact with soil, surface or ground water.

## 6.3 Methods and materials for containment and cleaning up

**Product AS SOLD** 

Methods for cleaning up Stop leak if safe to do so. Contain spillage, and then collect with

> non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material

to ensure runoff does not reach a waterway.

# **Product AT USE DILUTION**

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Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material

to ensure runoff does not reach a waterway.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

For personal protection see section 8.

See Section 13 for additional waste treatment information.

## Section: 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

## **Product AS SOLD**

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Use only

with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. Mixing this product with acid or ammonia releases chlorine gas. In case of mechanical

malfunction, or if in contact with unknown dilution of product, wear

full Personal Protective Equipment (PPE).

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

## **Product AT USE DILUTION**

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Use only

with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal

Protective Equipment (PPE).

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

## 7.2 Conditions for safe storage, including any incompatibilities

#### **Product AS SOLD**

Requirements for storage areas and containers

: Do not store near acids. Absorb spillage to prevent material damage. Keep out of reach of children. Keep container tightly closed. Keep only in original packaging. Store in suitable labeled

containers.

Storage temperature : 0 °C to 30 °C

Packaging material : Suitable material: Plastic material

Unsuitable material: Mild steel, Aluminium

## **Product AT USE DILUTION**

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Requirements for storage areas and containers

: Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

## 7.3 Specific end uses

**Product AS SOLD** 

Specific use(s) : Foam cleaner. Semi-Automatic without venting process

General purpose cleaner. Manual process

Foam cleaner. Semi-Automatic with venting process

# Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

## **Product AS SOLD**

# **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
sodium hydroxide	1310-73-2	T	2 mg/m3	FOR-2011-12-
-				06-1358
chlorine	7782-50-5	TWA	0.5 ppm	FOR-2011-12-
			1.5 mg/m3	06-1358
		Т	1 ppm	FOR-2011-12-
			3 mg/m3	06-1358

# **DNEL**

sodium hydroxide	Exp Pot Vali End Exp Pot	d Use: Workers bosure routes: Inhalation ential health effects: Long-term local effects ue: 1 mg/m3 d Use: Consumers bosure routes: Inhalation ential health effects: Long-term local effects ue: 1 mg/m3
Sodium silicate	Exp Pot Val Enc Exp Pot	d Use: Workers posure routes: Inhalation ential health effects: Long-term systemic effects ue: 5.61 mg/m3  d Use: Workers posure routes: Dermal ential health effects: Long-term systemic effects ue: 1.59 mg/cm2
	Exp Pot Vali End Exp Pot	d Use: Consumers posure routes: Inhalation ential health effects: Long-term systemic effects ue: 1.38 mg/m3 d Use: Consumers posure routes: Dermal ential health effects: Long-term systemic effects
	End	ue: 0.8 mg/cm2  d Use: Consumers  posure routes: Ingestion

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Topaz CL1	
	Potential health effects: Long-term systemic effects Value: 0.8 ppm
PNEC	
Sodium silicate	: Fresh water Value: 7.5 mg/l  Marine water Value: 1 mg/l  Intermittent use/release Value: 7.5 mg/l  Sewage treatment plant Value: 348 mg/l

## 8.2 Exposure controls

# Product AS SOLD Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

## Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles

Face-shield

Hand protection (EN 374) : Recommended preventive skin protection

Gloves Nitrile rubber butyl-rubber

Breakthrough time: 1 - 4 hours

Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4

mm or equivalent (please refer to the gloves

manufacturer/distributor for advise).

Gloves should be discarded and replaced if there is any indication

of degradation or chemical breakthrough.

Skin and body protection

(EN 14605)

: Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing including

appropriate safety shoes

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by

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technical means of collective protection or by measures, methods or procedures of work organization.

# Product AT USE DILUTION Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling. Provide suitable facilities for quick drenching or flushing

of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN

166)

: Safety goggles Face-shield

Hand protection (EN 374) : Recommended preventive skin protection

Gloves
Nitrile rubber
butyl-rubber

Breakthrough time: 1 – 4 hours

Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4

mm or equivalent (please refer to the gloves

manufacturer/distributor for advise).

Gloves should be discarded and replaced if there is any indication

of degradation or chemical breakthrough.

Skin and body protection

(EN 14605)

: Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing including

appropriate safety shoes

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

or procedures of work organization.

## **Environmental exposure controls**

General advice : Consider the provision of containment around storage vessels.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Product AS SOLD Product AT USE DILUTION

Physical state : liquid liquid
Colour : light yellow colourless
Odour : Chlorine not significant

pH : 13.0 - 14.0, 100 % 12.6

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Particle characteristics

Assessment : not applicable not applicable Particle size not applicable not applicable Particle Size Distribution : not applicable not applicable **Dustiness** not applicable not applicable Specific surface area : not applicable not applicable Surface charge/Zeta not applicable not applicable

potential

Shape : not applicable not applicable

Crystallinity : not applicable not applicable

Surface treatment : not applicable not applicable

/Coatings

Flash point : Not applicable.

Odour Threshold : Not applicable and/or not determined for the mixture

Melting point/freezing point : Not applicable and/or not determined for the mixture

Boiling point, initial boiling : Not applicable and/or not determined for the mixture

point and boiling range

Evaporation rate : Not applicable and/or not determined for the mixture

Flammability : Not applicable and/or not determined for the mixture
Upper explosion limit : Not applicable and/or not determined for the mixture
Lower explosion limit : Not applicable and/or not determined for the mixture
Vapour pressure : Not applicable and/or not determined for the mixture
Relative vapour density : Not applicable and/or not determined for the mixture

Density and / or relative : 1.11 - 1.15

density

Water solubility : Not applicable and/or not determined for the mixture Solubility in other solvents : Not applicable and/or not determined for the mixture Partition coefficient: n- octanol/water (log value) : Not applicable and/or not determined for the mixture

Auto-ignition temperature : Not applicable and/or not determined for the mixture
Thermal decomposition : Not applicable and/or not determined for the mixture
Viscosity, kinematic : Not applicable and/or not determined for the mixture
Explosive properties : Not applicable and/or not determined for the mixture

Oxidizing properties : Yes

## 9.2 Other information

Not applicable and/or not determined for the mixture

## Section: 10. STABILITY AND REACTIVITY

Product AS SOLD 10.1 Reactivity

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No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

# 10.3 Possibility of hazardous reactions

Mixing this product with acid or ammonia releases chlorine gas.

#### 10.4 Conditions to avoid

None known.

#### 10.5 Incompatible materials

Acids

Organic materials

Mild steel Aluminium

### 10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials:

Carbon oxides

nitrogen oxides (NOx)

metal oxides

Oxides of phosphorus

## Section: 11. TOXICOLOGICAL INFORMATION

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

## **Product AS SOLD**

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

#### **Product**

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye

irritation

: There is no data available for this product.

Respiratory or skin

sensitization

: There is no data available for this product.

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

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Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : sodium hypochlorite LD50 rat: 5,230 mg/kg

Amines, C12-14 alkyldimethyl, N-oxides LD50 rat: 1,064 mg/kg

Components

Acute dermal toxicity : sodium hypochlorite LD50 rabbit: > 10,000 mg/kg

**Potential Health Effects** 

**Product AS SOLD** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Product AT USE DILUTION** 

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

**Experience with human exposure** 

**Product AS SOLD** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Product AT USE DILUTION** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

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Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

## 11.2 Information on other hazards

**Further information** no data available

## **Section: 12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

**Product AS SOLD** 

**Environmental Effects** : Very toxic to aquatic life. Toxic to aquatic life with long lasting

effects.

**Product AT USE DILUTION** 

**Environmental Effects** : Harmful to aquatic life with long lasting effects.

**Product AS SOLD** 

**Product** 

: no data available Toxicity to fish

aquatic invertebrates

Toxicity to daphnia and other : 48 h EC50 Daphnia magna (Water flea): 1 mg/l

Toxicity to algae : no data available

Components

Toxicity to fish : Amines, C12-14 alkyldimethyl, N-oxides

96 h LC50: 2.67 mg/l

Components

Toxicity to daphnia and other : sodium hypochlorite

aquatic invertebrates

48 h EC50 Aquatic Invertebrate: 0.071 mg/l

sodium hydroxide

48 h EC50 Daphnia magna (Water flea): 40 mg/l

Amines, C12-14 alkyldimethyl, N-oxides

48 h EC50 Daphnia magna (Water flea): 3.1 mg/l

Components

Toxicity to algae : Amines, C12-14 alkyldimethyl, N-oxides

72 h LC50: 0.143 mg/l 72 h NOEC: 0.067 mg/l

## 12.2 Persistence and degradability

**Product** 

: The surfactants contained in the product are biodegradable Biodegradability

according to the requirements of the detergent regulation

648/2004/EC

Components

Biodegradability : sodium hypochlorite

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Result: Not applicable - inorganic

sodium hydroxide

Result: Not applicable - inorganic

Amines, C12-14 alkyldimethyl, N-oxides

Result: Readily biodegradable.

## 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

#### **Product**

Assessment : This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

## 12.6 Endocrine disrupting properties

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

# 12.7 Other adverse effects

no data available

## **Section: 13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### 13.1 Waste treatment methods

#### **Product AS SOLD**

Product : Do not contaminate storm water drains, natural waterways or soil

with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local,

state, and federal regulations.

Guidance for Waste Code

selection

: Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and

assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to

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determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

**Product AT USE DILUTION** 

Product : Do not contaminate storm water drains, natural waterways or soil

with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local,

state, and federal regulations.

## **Section: 14. TRANSPORT INFORMATION**

#### **Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number or ID : 3266

number

14.2 UN proper shipping : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

name

(sodium hydroxide, sodium hypochlorite)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : II 14.5 Environmental hazards : Yes

14.6 Special precautions for

user

: None

Air transport (IATA)

14.1 UN number or ID : 3266

number

14.2 UN proper shipping : Corrosive liquid, basic, inorganic, n.o.s.

name

(sodium hydroxide, sodium hypochlorite)

14.3 Transport hazard : 8

class(es)

14.4 Packing group : II 14.5 Environmental hazards : Yes

14.6 Special precautions for

user

: None

Sea transport (IMDG/IMO)

14.1 UN number or ID : 3266

number

14.2 UN proper shipping : CC

name

: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

(sodium hydroxide, sodium hypochlorite)

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14.3 Transport hazard : 8

class(es)

14.4 Packing group : 11 14.5 Environmental hazards : Yes

14.6 Special precautions for

user

14.7 Maritime transport in

bulk according to IMO

instruments

: Not applicable.

: None

# **Section: 15. REGULATORY INFORMATION**

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

: 5 % or over but less than 15 %: Chlorine-based bleaching agents according to Detergents

Regulation EC 648/2004 less than 5 %: Phosphonates, Non-ionic surfactants

Contains: Disinfectants

Seveso III: Directive **ENVIRONMENTAL HAZARDS E1** 

2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Lower tier: 100 t Upper tier: 200 t

Candidate List of Substances : Not applicable.

of Very High Concern for

Authorisation

### **National Regulations**

## Take note of Dir 94/33/EC on the protection of young people at work.

Registration number : 602623

Other regulations : Health and Safety at Work Act.

## **15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out on the product.

## **Section: 16. OTHER INFORMATION**

## Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Corrosive to metals 1, H290	Expert judgement and weight of evidence determination.
Skin corrosion 1, H314	Based on product data or assessment
Serious eye damage 1, H318	Based on product data or assessment
Acute aquatic toxicity 1, H400	Based on product data or assessment
Chronic aquatic toxicity 2, H411	Calculation method

# **Full text of H-Statements**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and

d eye damage.

H315 Causes skin irritation. H318 Causes serious eye damage.

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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.

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European 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; 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

## **Further information**

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# Annex: Exposure Scenarios

# Exposure Scenario: Foam cleaner. Semi-Automatic with venting process

Life Cycle Stage : Use at industrial sites

PC35 Product category Washing and cleaning products (including solvent based

products)

## Contributing scenario controlling environmental exposure for:

Environmental release : **ERC4** Industrial use of processing aids in processes and

products, not becoming part of articles category

Daily amount per site 50 kg

Type of Sewage Treatment : Municipal sewage treatment plant

Plant

# Contributing scenario controlling worker exposure for:

Process category PROC7 Industrial spraying

Exposure duration 240 min

: Indoor Operational conditions and

risk management measures

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection see section 8

**Respiratory Protection** see section 8

## Contributing scenario controlling worker exposure for:

PROC8b Process category Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at

dedicated facilities

60 min Exposure duration

Operational conditions and

risk management measures

: Indoor

Local Exhaust Ventilation is not required

1 General ventilation Ventilation rate per hour

Skin Protection see section 8

**Respiratory Protection** see section 8

# Exposure Scenario: Foam cleaner. Semi-Automatic without venting process

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Life Cycle Stage : Use at industrial sites

Product category : PC35 Washing and cleaning products (including solvent based

products)

Contributing scenario controlling environmental exposure for:

Environmental release : ERC4 Industrial use of processing aids in processes and

products, not becoming part of articles

Daily amount per site : 50 kg

Type of Sewage Treatment : Municipal sewage treatment plant

Plant

category

Contributing scenario controlling worker exposure for:

Process category : **PROC7** Industrial spraying

Exposure duration : 240 min

Operational conditions and

risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

Process category : PROC8b Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at

dedicated facilities

Exposure duration : 60 min

Operational conditions and risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

Exposure Scenario: General purpose cleaner. Manual process

Life Cycle Stage : Widespread use by professional workers

Product category : PC35 Washing and cleaning products (including solvent based

products)

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category

Plant

## Contributing scenario controlling environmental exposure for:

Environmental release

ERC8a

Wide dispersive indoor use of processing aids in open

systems

Daily amount per site

7.5 kg

Type of Sewage Treatment

Municipal sewage treatment plant

## Contributing scenario controlling worker exposure for:

PROC10 Roller application or brushing Process category

Exposure duration 480 min

Operational conditions and

Indoor

risk management measures

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour

Skin Protection see section 8

**Respiratory Protection** see section 8

# Contributing scenario controlling worker exposure for:

PROC8a Transfer of substance or preparation (charging/ Process category

discharging) from/ to vessels/ large containers at non-

1

dedicated facilities

Exposure duration 60 min

Operational conditions and risk management measures Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection see section 8

Respiratory Protection see section 8

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