

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

• **1.1 Product identifier**

• Trade name: **04 Mildew remover CONCENTRATED FORMULA**

• Article number: 04 CLP

• **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

• Application of the substance / the mixture Cleaning material/ Detergent

• **1.3 Details of the supplier of the safety data sheet**

• Manufacturer/Supplier:

Producteur:  
Flowey / LCI sarl  
2 ZAC Klengbousbiereg  
L-7795 Bissen  
LUXEMBOURG  
tel : (+352) 33 52 50  
e-mail : labo@flowey.com

Fournisseur :  
Nautic Clean®  
ZI RIEDGEN  
Ancien site WSA  
L-3451 Dudelange  
LUXEMBOURG  
Tél. (+352) 265 490 300  
e-mail : contact@nautic-clean.com

• Further information obtainable from: product safety department

• **1.4 Emergency telephone number:**

During normal opening times(+ 352) 33 52 50  
Mr Weynachter/Mr Podorieszack

## SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

• Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Met. Corr.1      H290 May be corrosive to metals.  
Skin Corr. 1B    H314 Causes severe skin burns and eye damage.  
Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



GHS07

STOT SE 3      H335 May cause respiratory irritation.

• **2.2 Label elements**

• Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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• Hazard pictograms



• Signal word Danger

• Hazard-determining components of labelling:

hypochlorite de sodium, solution

• Hazard statements

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.

• Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P405 Store locked up.
- P406 Store in corrosive resistant container with a resistant inner liner.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• Additional information:

EUH031 Contact with acids liberates toxic gas.

• 2.3 Other hazards

• Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

• 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous components:

CAS: 7681-52-9	hypochlorite de sodium, solution	 Skin Corr. 1B, H314;  Aquatic Acute 1, H400	10-20%
EINECS: 231-668-3			

### SECTION 4: First aid measures

• 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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- After swallowing:  
Drink plenty of water and provide fresh air. Call for a doctor immediately.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- Suitable extinguishing agents:  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- Protective equipment:  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Open and handle receptacle with care.
- Information about fire - and explosion protection: No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles:  
Store only in the original receptacle.  
Store in a cool location.
- Information about storage in one common storage facility:  
Do not store together with acids.  
Store away from foodstuffs.
- Further information about storage conditions:  
Keep container tightly sealed.  
Store receptacle in a well ventilated area.

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- Protect from frost.
- Protect from heat and direct sunlight.
- Protect from exposure to the light.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- **8.1 Control parameters**
- Ingredients with limit values that require monitoring at the workplace:  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- Respiratory protection:  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Use protective suit.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- General Information
- Appearance:
 

Form:	Fluid
Colour:	Yellowish
- Odour: Aromatic
- pH-value at 20 °C: >12
- Change in condition
 

Boiling point/Boiling range:	100 °C
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- Flash point: Not applicable.

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- Self-igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Density at 20 °C: 1.22
- Solubility in / Miscibility with water: Fully miscible.
- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Contact with acids releases toxic gases.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Chlorine  
Oxygen

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity:

• LD/LC50 values relevant for classification:

**7681-52-9 hypochlorite de sodium, solution**

Oral	LD50	5800 mg/kg (mouse)
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- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitisation: No sensitising effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## SECTION 12: Ecological information

- **12.1 Toxicity**

• Aquatic toxicity:

**7681-52-9 hypochlorite de sodium, solution**

LC50/96 h	0.06 mg/l (fish)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger of drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation:  
Disposal must be made according to official regulations.  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, IMDG, IATA
- **14.2 UN proper shipping name**
- ADR
- IMDG
- IATA
- **14.3 Transport hazard class(es)**

UN1791

1791 HYPOCHLORITE SOLUTION, ENVIRONMENTALLY HAZARDOUS  
HYPOCHLORITE SOLUTION, MARINE POLLUTANT  
HYPOCHLORITE SOLUTION

- ADR



- Class
- Label

8 (C9) Corrosive substances.  
8

- IMDG



- Class
- Label

8 Corrosive substances.  
8

- IATA



- Class
- Label

8 Corrosive substances.  
8

- **14.4 Packing group**

- ADR, IMDG, IATA

II

- **14.5 Environmental hazards:**

- Marine pollutant:
- Special marking (ADR):
- **14.6 Special precautions for user**
- Danger code (Kemler):
- EMS Number:

Yes  
Symbol (fish and tree)  
Symbol (fish and tree)  
Warning: Corrosive substances.  
80  
F-A,S-B

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<ul style="list-style-type: none"> <li>• Segregation groups</li> <li>• <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> <li>• Transport/Additional information:</li> </ul>	<p>Hypochlorites</p> <p>Not applicable.</p>
<ul style="list-style-type: none"> <li>• ADR</li> <li>• Limited quantities (LQ)</li> <li>• Excepted quantities (EQ)</li>   <li>• Transport category</li> <li>• Tunnel restriction code</li> </ul>	<p>1L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p> <p>2</p> <p>E</p>
<ul style="list-style-type: none"> <li>• IMDG</li> <li>• Limited quantities (LQ)</li> <li>• Excepted quantities (EQ)</li>   <li>• UN "Model Regulation":</li> </ul>	<p>1L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p> <p>UN1791, HYPOCHLORITE SOLUTION, ENVIRONMENTALLY HAZARDOUS, 8, II</p>

### SECTION 15: Regulatory information

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

- National regulations:
- Danish MAL-Code 00-6
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Relevant phrases**

H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 MAL-Code: Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Met. Corr.1: Corrosive to metals, Hazard Category 1  
 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1