

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

- **1.1 Product identifier**
- **Trade name: *Hygienereiniger***
- **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:**  
*Cleanfix  
Reinigungssysteme AG  
Stettenstrasse  
9247 Henau  
Tel. +41 (0)71 955 47 47  
Fax +41 (0)71 955 47 60*
- **Further information obtainable from:**  
*info@cleanfix.com  
Tel. +41 (0)71 955 47 47  
Fax +41 (0)71 955 47 60*
- **1.4 Emergency telephone number:**  
*Centre suisse d'information toxicologique, Zurich  
+41 (0)44 251 51 51 ou 145 (depuis la Suisse)  
Schweizerisches Toxikologisches Informationszentrum, Zürich  
+41 (0)44 251 51 51 oder aus der Schweiz: Tel 145  
Centro Svizzero d'informazione tossicologica  
+41 (0)44 251 51 51 o dalla Svizzera: Tel 145*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

*Eye Dam. 1      H318 Causes serious eye damage.*



GHS09 environment

*Aquatic Acute 1      H400 Very toxic to aquatic life.  
Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.*



GHS07

*Skin Irrit. 2      H315 Causes skin irritation.*

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the CLP regulation.*
- **Hazard pictograms** *GHS05, GHS09*
- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*sodium hypochlorite, solution*
- **Hazard statements**  
*H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.*

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# Safety data sheet

## according to 1907/2006/EC, Article 31

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**· Precautionary statements**

- P102                      *Keep out of reach of children.*  
 P280                      *Wear protective gloves/protective clothing/eye protection/face protection.*  
 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.*  
 P501                      *Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· 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	sodium hypochlorite, solution	25-50%
EINECS: 231-668-3	☠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
Reg.nr.: 01-2119488154-34		

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
*If skin irritation continues, consult a doctor.*  
*Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
*Rinse out mouth and then drink plenty of water.*  
*Drink plenty of water and provide fresh air. Call for a doctor 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:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 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.*
- **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.*

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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**

No dangerous substances are released.

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.

· **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.

Provide ventilation for receptacles.

Provide floor trough without outlet.

· **Information about storage in one common storage facility:** Do not store together with acids.

· **Further information about storage conditions:** Keep container tightly sealed.

· **Storage class:** 8 B

· **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.

· **DNELs**

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

Oral	DNEL long term systemic effects	0.26 mg/kg bw/day (general population)
Inhalative	DNEL long term systemic effects	1.55 mg/m <sup>3</sup> (general population)
		1.55 mg/m <sup>3</sup> (workers)
	DNEL short term local effects	3.1 mg/m <sup>3</sup> (workers)
	DNEL long term local effects	1.55 mg/m <sup>3</sup> (general population)
		1.55 mg/m <sup>3</sup> (workers)
	DNEL short term systemic effects	3.1 mg/m <sup>3</sup> (workers)

· **PNECs**

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

PNEC	0.00026 mg/l (intermittent release)
	0.03 mg/l (sewage plant)
PNEC aqua	0.00021 mg/l (fresh water)
	0.00042 mg/l (sea water)

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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

EN 374

· **Material of gloves**

Rubber gloves

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

· **Penetration time of glove material  $\geq 8h$**

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Apron

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Chlorine-like
<b>Odour threshold:</b>	Not determined.

· **pH-value at 20 °C:** 11.5

· **Change in condition**

<b>Melting point/freezing point:</b>	0 °C
<b>Initial boiling point and boiling range:</b>	100 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

· **Vapour pressure at 20 °C:** 23 hPa

<b>Density at 20 °C:</b>	1.072 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

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- |  |  |
|--|--|
| · <b>Solubility in / Miscibility with water:</b> | Fully miscible.                            |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| <b>Dynamic:</b>                                  | Not determined.                            |
| <b>Kinematic:</b>                                | Not determined.                            |
| <b>Water:</b>                                    | 66.7 %                                     |
| · <b>9.2 Other information</b>                   | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with amines.  
Reacts with acids.  
Reacts with acids releasing chlorine.
- **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

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

7681-52-9 sodium hypochlorite, solution

Oral LD50 5,800 mg/kg (Mouse)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### \* SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** Does not accumulate in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish

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· **Additional ecological information:**· **General notes:**

*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*

*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

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

*Also poisonous for fish and plankton in water bodies.*

*The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.*

*Very toxic for aquatic organisms*

*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.*

· **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.*

· **European waste catalogue**

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 29*	detergents containing hazardous substances

· **Uncleaned packaging:**· **Recommendation:**

*Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.*

*Non contaminated packagings may be treated like household garbage.*

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1719

· **14.2 UN proper shipping name**

· **ADR**

1719 CAUSTIC ALKALI LIQUID, N.O.S. (HYPOCHLORITE SOLUTION), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

CAUSTIC ALKALI LIQUID, N.O.S. (HYPOCHLORITE SOLUTION), MARINE POLLUTANT

· **IATA**

CAUSTIC ALKALI LIQUID, N.O.S. (HYPOCHLORITE SOLUTION)

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## · 14.3 Transport hazard class(es)

## · ADR, IMDG



· Class 8 Corrosive substances.  
· Label 8

## · IATA



· Class 8 Corrosive substances.  
· Label 8

## · 14.4 Packing group

· ADR, IMDG, IATA III

## · 14.5 Environmental hazards:

Product contains environmentally hazardous substances:  
sodium hypochlorite, solution

## · Marine pollutant:

No  
Symbol (fish and tree)

## · Special marking (ADR):

Symbol (fish and tree)

## · 14.6 Special precautions for user

Warning: Corrosive substances.

## · Hazard identification number (Kemler code):

80

## · EMS Number:

F-A,S-B

## · Segregation groups

Alkalis

## · Stowage Category

A

## · Segregation Code

SG22 Stow "away from" ammonium salts  
SG35 Stow "separated from" SGG1-acids

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

Not applicable.

## · Transport/Additional information:

## · ADR

## · Limited quantities (LQ)

5L

## · Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

## · Transport category

3

## · Tunnel restriction code

E

## · IMDG

## · Limited quantities (LQ)

5L

## · Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

## · UN "Model Regulation":

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S.  
(HYPOCHLORITE SOLUTION), 8, III,  
ENVIRONMENTALLY HAZARDOUS

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### SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category E1** Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **National regulations:**

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

chlorine-based bleaching agents

<5%

· **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.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **\* Data compared to the previous version altered.**

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