

Trade name: Natrii hypochlorosi 5% solut

Substance number: 213600

Version: 10 / CH

Date revised: 03.07.2025

Replaces Version: 9 / CH

Print date: 08.07.25

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

### **1.1. Product identifier**

Natrii hypochlorosi 5% solut

Item No. 21360005

### **Substance / product identification**

UFI 64F8-00YK-800Q-ENHC

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

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1B H314

Eye Dam. 1 H318

Aquatic Acute 1 H400

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Hazard pictograms**



#### **Signal word**

Danger

#### **Hazard statements**

H314

Causes severe skin burns and eye damage.

H410

Very toxic to aquatic life with long lasting effects.

EUH031

Contact with acids liberates toxic gas.

H290

May be corrosive to metals.

#### **Precautionary statements**

P273

Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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 or doctor.  
P501.3 Disposal in compliance with local and national regulations.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains sodium hypochlorite, solution... % Cl active

**2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients****Hazardous ingredients****sodium hypochlorite, solution... % Cl active**

CAS No.	7681-52-9
EINECS no.	231-668-3
Registration no.	01-2119488154-34-XXXX
Concentration	>= 5 < 10 %
Classification (Regulation (EC) No. 1272/2008)	
Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Concentration limits (Regulation (EC) No. 1272/2008)

EUH03 >= 5 %  
1

Aquatic Acute 1	M = 10
Aquatic Chronic 1	M = 1

ATE oral 5 mg/kg

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

**After inhalation**

If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Wash off immediately with soap and water and rinse well. Remove contaminated, soaked clothing immediately and dispose of safely. Take medical treatment.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

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Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguishing measures to suit surroundings

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

Development of toxic gases; Chlorine (Cl<sub>2</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

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

Respiratory protection. Wear protective equipment. Keep away unprotected persons.

### **6.2. Environmental precautions**

Dilute with lot of water. Do not discharge into the drains/surface waters/groundwater.

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

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Rinse away rest with plenty of water. Neutralize

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Handle and open container with care.

#### **Advice on protection against fire and explosion**

The product is not combustible.

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

#### **Recommended storage temperature**

Value < 15 °C

#### **Requirements for storage rooms and vessels**

Only use containers that are approved specifically for the substance/product.

#### **Hints on storage assembly**

Do not store with acids.

#### **Storage classes**

Storage class according to TRGS 510	8A	Combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

#### **Further information on storage conditions**

Protect from heat and direct sunlight. Protect from light.

## **SECTION 8: Exposure controls/personal protection**

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## 8.1. Control parameters

### Derived No/Minimal Effect Levels (DNEL/DMEL)

#### sodium hypochlorite, solution... % Cl active

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3.1	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1.55	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	0.5	%
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1.55	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Concentration	3.1	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0.26	mg/kg/d

### Predicted No Effect Concentration (PNEC)

#### sodium hypochlorite, solution... % Cl active

Type of value	PNEC	
Type	Freshwater	
Concentration	0.21	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.042	µg/l

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Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0.03	mg/l
Type of value	PNEC	
Conditions	Intermittend	
Concentration	0.26	µg/l

## 8.2. Exposure controls

### General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Keep away from food-stuffs, beverages and feed-stocks.

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

### Hand protection

Gloves (alkali-resistant)	
Appropriate Material	Natural Latex
Appropriate Material	nitrile rubber - NBR
Appropriate Material	PVC
Appropriate Material	Butyl rubber - Butyl

### Eye protection

Tightly fitting safety glasses

### Body protection

Protective clothing

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	liquid	
Colour	yellowish, clear	
Odour	Chlorine.	
Boiling point or initial boiling point and boiling range		
Value	100	°C
Method	DIN 51761	
Flash point		
Value	> 100	°C
Decomposition temperature		
Remarks	Slow decomposition possible.	
pH value		
Value	11.5	
Remarks	strongly alkaline	
Vapour pressure		
Remarks	No data available	
Density and/or relative density		
Value	1.08	g/cm <sup>3</sup>
Temperature	20	°C

### 9.2. Other information

#### Solubility in water

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Remarks

Completely miscible

**Other information**

The product is not dangerous for explosions.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Corrosive to metals. Contact with acids liberates toxic gases.

**10.2. Chemical stability**

Protect from warmth.

**10.3. Possibility of hazardous reactions**

Heat

**10.4. Conditions to avoid**

Heat. Protect from frost. Protect from light.

**10.5. Incompatible materials**Corrosive to metals. Evolution of chlorine under influence of acids. amines, Reactions with alcohols.  
Organic materials**10.6. Hazardous decomposition products**

Chlorine

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	90.9091	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute oral toxicity (Components)****sodium hypochlorite, solution... % Cl active**

Species	mouse	
LD50	5800	mg/kg

**sodium hypochlorite, solution... % Cl active**

Species	rat	
LD50	> 1100	mg/kg
Method	OECD 401	
Source	Test substance: Cl	

**sodium hypochlorite, solution... % Cl active**

Species	rat	
NOAEL	5	mg/kg

**Acute dermal toxicity (Components)****sodium hypochlorite, solution... % Cl active**

Species	rabbit	
LD50	> 20000	mg/kg
Method	OECD 402	
Source	Test substance: Cl	

**Acute inhalative toxicity (Components)****sodium hypochlorite, solution... % Cl active**

Species	rat	
LC50	> 10.5	mg/l
Duration of exposure	1	h

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Method	OECD 403
Source	Chlor

**Skin corrosion/irritation**

Remarks	Corrosive action on the skin and mucous membrane.
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**Skin corrosion/irritation (Components)****sodium hypochlorite, solution... % Cl active**

Species	Human
evaluation	corrosive

**sodium hypochlorite, solution... % Cl active**

Species	rabbit
evaluation	strongly irritant
Method	OECD 404

**Serious eye damage/irritation**

evaluation	strongly corrosive
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**Serious eye damage/irritation (Components)****sodium hypochlorite, solution... % Cl active**

Species	rabbit
evaluation	irritant - risk of serious damage to eyes
Method	OECD 405

**Sensitization**

Remarks	No sensitization effect known.
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**Sensitization (Components)****sodium hypochlorite, solution... % Cl active**

Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406

**Mutagenicity (Components)****sodium hypochlorite, solution... % Cl active**

evaluation	No experimental information on genotoxicity in vitro available.
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**sodium hypochlorite, solution... % Cl active**

evaluation	No experimental indications on genotoxicity in vivo found.
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**sodium hypochlorite, solution... % Cl active**

Species	Salmonella typhimurium
evaluation	No mutagenicity in the Ames-test.
Method	OECD 471

**sodium hypochlorite, solution... % Cl active**

Species	hamster
evaluation	Information on genotoxicity in vitro available.
Method	OECD 473

**sodium hypochlorite, solution... % Cl active**

Species	mouse
evaluation	No experimental indications on genotoxicity in vivo found.
Method	OECD 474

**sodium hypochlorite, solution... % Cl active**

Species	mouse
evaluation	Information on genotoxicity in vivo available.

**Reproduction toxicity (Components)****sodium hypochlorite, solution... % Cl active**

evaluation	No negative effects
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**Carcinogenicity (Components)****sodium hypochlorite, solution... % Cl active**

evaluation No negative effects

**Specific Target Organ Toxicity (STOT) (Components)****sodium hypochlorite, solution... % Cl active****Single exposure**

evaluation May cause respiratory irritation.

Route of exposure inhalative

Organs: Respiratory tract

Species Human

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

Ingestion of aqueous solution causes burns in: Mouth. Throat. Perforation of gullet and stomach.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****sodium hypochlorite, solution... % Cl active**

Species	Salmo gairdneri	
LC50	0.06	mg/l
Duration of exposure	96	h

**sodium hypochlorite, solution... % Cl active**

Species	Menidia peninsulæ	
NOEC	0.04	mg/l
Duration of exposure	96	h

**sodium hypochlorite, solution... % Cl active**

Species	Menidia peninsulæ	
NOEC	0.04	mg/l
Duration of exposure	28	d

**Daphnia toxicity (Components)****sodium hypochlorite, solution... % Cl active**

Species	Daphnia magna	
EC50	0.141	mg/l
Duration of exposure	48	h

**Algae toxicity (Components)****sodium hypochlorite, solution... % Cl active**

NOEC	0.0021	
Duration of exposure	7	d

**Bacteria toxicity (Components)****sodium hypochlorite, solution... % Cl active**

Species	activated sludge	
EC50	> 3	mg/l
Duration of exposure	3	h

**12.2. Persistence and degradability**



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**Biodegradability (Components)****sodium hypochlorite, solution... % Cl active**

Remarks

Inorganic product, cannot be eliminated from the water by biological purification processes.

**12.3. Bioaccumulative potential****Octanol/water partition coefficient (log Pow) (Components)****sodium hypochlorite, solution... % Cl active**

log Pow

-3.42

Temperature

20

°C

**12.4. Mobility in soil****Mobility in soil (Components)****sodium hypochlorite, solution... % Cl active**

Highly mobile in soils

**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system. Hazard for drinking water supplies. Neutralization is normally necessary before waste water is discharged into water treatment plants.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1791	1791	1791
14.2. UN proper shipping name	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		

## SECTION 15: Regulatory information

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

#### Water Hazard Class (Germany)

Water Hazard Class  
(Germany)

WGK 2

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

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.  
 H411 Toxic to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1  
 Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, Category 1  
 Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2  
 Eye Dam. 1 Serious eye damage, Category 1  
 Skin Corr. 1B Skin corrosion, Category 1B

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.