

Trade name: Natrii hypochlorosi 5% solut

Substance number: 213600

Version: 8 / CH

Date revised: 05.06.2019

Replaces Version: 7 / CH

Print date: 05.06.19

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

1.1. Product identifier

Natrii hypochlorosi 5% solut

Item No. 21360005

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.

H400 Very toxic to aquatic life.

EUH031 Contact with acids liberates toxic gas.

Precautionary statements

P273 Avoid release to the environment.

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 [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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P310 lenses, if present and easy to do. Continue rinsing.
 P501.3 Immediately call a POISON CENTER or doctor.
 Disposal in compliance with local and national regulations.

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

contains Sodium hypochlorite

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Sodium hypochlorite**

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		
			EUH031		

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

EUH03 >= 5 %

1

Aquatic Acute 1 H400 M = 10

Aquatic Chronic H410 M = 1

1

CLP Regulation (EC) No 1272/2008, Annex VI, Note B
 DSD Directive 67/548/EEC, Annex I, 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

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

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Development of toxic gases; Chlorine (Cl₂)**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**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)

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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**

Form	liquid	
Colour	yellowish, clear	
Odour	Chlorine.	
pH value		
Value	11.5	
Remarks	strongly alkaline	
Initial boiling point and boiling range		
Value	100	°C
Method	DIN 51761	
Flash point		
Value	> 100	°C
Vapour pressure		
Remarks	No data available	
Density		
Value	1.08	g/cm ³
Temperature	20	°C
Solubility in water		
Remarks	Completely miscible	
Decomposition temperature		
Remarks	Slow decomposition possible.	

9.2. Other information**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

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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 toxicological effects****Acute oral toxicity (Components)****Sodium hypochlorite**

Species	mouse			
LD50	5800			mg/kg

Skin corrosion/irritation

Remarks	Corrosive action on the skin and mucous membrane.
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Serious eye damage/irritation

evaluation	strongly corrosive
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Sensitization

Remarks	No sensitisation effect known.
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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**

LC50	0.01	to	0.1	mg/l
Duration of exposure	96	h		

Daphnia toxicity (Components)**Sodium hypochlorite**

EC50	0.01	to	0.1	mg/l
Duration of exposure	48	h		

12.6. 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

EUH031 Contact with acids liberates toxic gas.
 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.

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
 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.