

Trade name: Natrii hypochlorosi 14% solut

Substance number: 213700

Version: 14 / CH

Date revised: 05.06.2023

Replaces Version: 13 / CH

Print date: 05.06.23

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

1.1. Product identifier

Natrii hypochlorosi 14% solut

Item No. 21370000

Registration no.

EC No.: 231-668-3

Registration no. 01-2119488154-34-XXXX

CAS No. 7681-52-9

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)

Met. Corr. 1 H290

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

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H400

Very toxic to aquatic life.

H411

Toxic to aquatic life with long lasting effects.

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EUH031

Contact with acids liberates toxic gas.

Precautionary statements ***

P234 Keep only in original packaging.
 P273 Avoid release to the environment.
 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.

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

contains sodium hypochlorite, solution... % Cl active; sodium hydroxide

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 ≥ 10 < 25 %
 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 %
1Aquatic Acute 1 M = 10
Aquatic Chronic M = 1

1

ATE oral 5 mg/kg

Additional remarks:

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

sodium hydroxide

CAS No. 1310-73-2
 EINECS no. 215-185-5
 Registration no. 01-2119457892-27-XXXX
 Concentration ≥ 1 < 2 %
 Classification (Regulation (EC) No. 1272/2008)
 Met. Corr. 1 H290
 Skin Corr. 1A H314

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

Eye Irrit. 2 H319 $\geq 0.5 < 2$ %Skin Corr. 1A H314 ≥ 5 %Skin Corr. 1B H314 $\geq 2 < 5$ %

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	Skin Irrit. 2	H315	$\geq 0.5 < 2 \%$
ATE	oral	325	mg/kg
ATE	dermal	1'350	mg/kg

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from danger area, lay him down. Adhere to personal protective measures when giving first aid. Keep under medical supervision for at least 48 hours. 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

Summon a doctor immediately. Wash off immediately with soap and water and rinse well. Wash skin thoroughly with water (15 min.).

After eye contact

Shield unaffected eye. Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If individual is drowsy or unconscious place in recovery position (on left side, with head down). Summon a doctor immediately.

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

Irritating to respiratory system. Irritation of mucosa, Gastrointestinal complaints, Chemical burn

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

Frequent and persistent contact with the skin can cause dermatitis. Risk of pulmonary oedema

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Hydrogen chloride (HCl); Chlorine (Cl₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Wear full protective suit. Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

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

Suppress gases/vapours/mists with water spray jet. Dilute with lot of water. Do not discharge into the

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drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Neutralize. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

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. Avoid formation of aerosols.

Advice on protection against fire and explosion

The product is not combustible. Oxidizing

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

Value	15	25	°C
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Requirements for storage rooms and vessels

Only use containers that are approved specifically for the substance/product. Do not use metal containers and metal pinings.

Hints on storage assembly

Do not store with combustible materials. Do not store with acids.

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Protect from frost. Protect from light. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****sodium hydroxide**

List	SUVA	
Type	MAK	
Value	2	mg/m ³
Short term exposure limit	2	mg/m ³
Pregnancy group: S; Remarks: SSc; Haut, OAWKT & AugeKT; NIOSH, OSHA		

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 ³

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term

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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1.55	mg/m ³

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 ³

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 ³

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

sodium hydroxide

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m ³

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

Exposure controls

See Section 7. No measures exceeding the ones mentioned necessary.

General protective and hygiene measures

Hold eye wash fountain available. Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter B-P2; At intensive and longer exposition use self-contained breathing apparatus. EN 141

Hand protection

Gloves (alkali-resistant)	
Appropriate Material	Polychloroprene
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Hand protection must comply with EN 374.	
Gloves (alkali-resistant)	
Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.4 mm
Breakthrough time	>= 8 h
Gloves (alkali-resistant)	
Appropriate Material	PVC
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Protective gloves	
Not suitable: gloves made of thick material	
Not suitable: leather gloves	

Eye protection

Tightly fitting safety glasses

Body protection

Alkali-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow-green
Odour	Chlorine.
Melting point	
Value	-30 to -20 °C
Flash point	
Value	°C
Remarks	Not applicable

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Decomposition temperature

Value > 111 °C

pH value

Value 12 to 13

Viscosity**dynamic**

Value 3 to 4 mPa.s

Partition coefficient n-octanol/water (log value)log Pow -3.42
Temperature 20 °C**Vapour pressure**

Value appr. 20 hPa

Density and/or relative densityValue 1.21 to 1.23 g/cm³
Temperature 20 °C**9.2. Other information****Solubility in water**

Remarks Completely miscible

Explosive properties

evaluation no

Oxidising properties

evaluation oxidizing

Other information

The product is not dangerous for explosions. The product is not combustible.

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

Contact with acids liberates toxic gases. Corrosive to metals.

10.2. Chemical stability

Protect from light. Heat

10.3. Possibility of hazardous reactions

Protect from light and atmospheric moisture. Keep away from sources of heat and ignition. Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materialsReactions with strong acids. Do not store with combustible materials. Evolution of chlorine under influence of acids. Reactions with reducing agents. Corrosive to metals. Violent reaction with organic compounds like wood, paper, grease. hydrogen peroxide (H₂O₂). Salts of metals (iron), copper (Cu)**10.6. Hazardous decomposition products**

Chlorine, Hydrogen chloride (HCl), Chlorine compounds

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

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Acute oral toxicity

ATE 33.2992 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

sodium hydroxide

Species rat
 LD50 2000 mg/kg
 Source NLM HSDB

sodium hydroxide

Species rat
 LD50 325 mg/kg
 Source OECD SIDS

Acute dermal toxicity

ATE > 10'000 mg/kg
 Method calculated value (Regulation (EC) No. 1272/2008)

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

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

sodium hydroxide

Remarks Strong corrosive action on the skin and mucous membrane.

sodium hydroxide

Species rabbit
 LD50 1350 mg/kg
 Source NLM HSDB

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

Species rat
 LC50 > 10.5 mg/l
 Duration of exposure 1 h
 Method OECD 403
 Source Chlor

sodium hydroxide

Remarks Strong corrosive action on the skin and mucous membrane.

Skin corrosion/irritation

Remarks Corrosive action on the skin and mucous membrane.

Skin corrosion/irritation (Components)

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sodium hypochlorite, solution... % Cl active

Species	Human
evaluation	corrosive

sodium hypochlorite, solution... % Cl active

Species	rabbit
evaluation	strongly irritant
Method	OECD 404

sodium hydroxide

Species	rabbit
Duration of exposure	24 h
Remarks	Corrosive

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

sodium hydroxide

Species	rabbit
Duration of exposure	24 h
evaluation	strongly corrosive
Method	Draize method
Remarks	Influence of the product with the eyes can lead to blindness.

Sensitization

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

Species	guinea pig
evaluation	non-sensitizing
Method	OECD 406

sodium hydroxide

Remarks	No sensitisation effect known.
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Subacute, subchronic, chronic toxicity (Components)**sodium hydroxide**

Remarks	No data available
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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

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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.

sodium hydroxide

Species Escherichia coli
 evaluation No mutagenicity in the Ames-test.

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

evaluation No negative effects

sodium hydroxide

Remarks No data available

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

evaluation No negative effects

sodium hydroxide

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

sodium hydroxide

Remarks No data available

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

After Swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Species Fathead minnow (Pimephales promelas)
 LC50 5.9 mg/l
 Duration of exposure 96 h

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

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

sodium hypochlorite, solution... % Cl active

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

sodium hydroxide

Species	Gambusia affinis	
LC50	125	mg/l
Duration of exposure	96	h

sodium hydroxide

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	45.4	mg/l
Duration of exposure	96	h

Daphnia toxicity

Species	Daphnia magna	
LC50	< 10	mg/l
Duration of exposure	24	h

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

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

sodium hydroxide

Species	Daphnia	
EC50	40.38	mg/l
Duration of exposure	48	h
Remarks	Immobilization	

sodium hydroxide

Species	Daphnia magna	
EC50	76	mg/l
Duration of exposure	24	h

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

NOEC	0.0021	
Duration of exposure	7	d

sodium hydroxide

Remarks	No data available.
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Bacteria toxicity (Components)**sodium hypochlorite, solution... % Cl active**

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

sodium hydroxide

Species	Photobacterium phosphoreum	
EC50	22	mg/l
Duration of exposure	15	min

12.2. Persistence and degradability**Physico-chemical eliminability (Components)**

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sodium hydroxide

Remarks No data available.

Biodegradability

evaluation not degradable

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

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

sodium hydroxide

evaluation not degradable

Ready degradability (Components)**sodium hydroxide**

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

12.3. Bioaccumulative potential**General information**

Not applicable

Partition coefficient n-octanol/water (log value)log Pow -3.42
Temperature 20 °C**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**

Highly mobile in soils

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

Highly mobile in soils

sodium hydroxide

Slightly mobile in soils

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

No data available

Results of PBT and vPvB assessmentThe 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**

Toxic for aquatic organisms. Do not allow it to reach ground water, water bodies or sewage system.

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Hazard for drinking water supplies.

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

	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 (sodium hypochlorite, solution... % Cl active)	HYPOCHLORITE SOLUTION (sodium hypochlorite, solution... % Cl active)	HYPOCHLORITE SOLUTION (sodium hypochlorite, solution... % Cl active)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		

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

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

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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

Met. Corr. 1

Substance or mixture corrosive to metals, Category 1

Skin Corr. 1A

Skin corrosion, Category 1A

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.