

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 1 of 11

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

#### 1.1. Product identifier

Ätznatron Prills

REACH Registration Number: 01-2119457892-27-XXXX  
CAS No: 1310-73-2  
Index No: 011-002-00-6  
EC No: 215-185-5

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Industrial uses

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

Company name: HCH. Hisgen GmbH & Co KG  
Chemikaliengroßhandel  
Street: Erntestr. 6-8  
Place: D-63027 Frankfurt  
Telephone: 069/25626713  
e-mail: info@hch-hisgen.de  
Responsible Department: Außerhalb der Geschäftszeiten: Informationszentrale für Vergiftungen, Freiburg  
0761-2704361 oder 0761-2704305

### SECTION 2: Hazards identification

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

##### Regulation (EC) No 1272/2008

Met. Corr. 1; H290  
Skin Corr. 1A; H314

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### Regulation (EC) No 1272/2008

##### Hazard components for labelling

Sodium hydroxide; Caustic soda

Signal word: Danger

##### Pictograms:



##### Hazard statements

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

##### Precautionary statements

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 lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

##### Additional advice on labelling

Classification according to Regulation (EC) No 1272/2008 [CLP]

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 2 of 11

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

### 2.3. Other hazards

Reacts violently with water. Exothermic reaction with strong acids.

Causes severe burns.

Gives off hydrogen by reaction with metals.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Sum formula: NaOH

Molecular weight: 40 g/mol

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
1310-73-2	Sodium hydroxide; Caustic soda			>=98 %
	215-185-5	011-002-00-6	01-2119457892-27-XXXX	
	Met. Corr. 1, Skin Corr. 1A; H290 H314			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
1310-73-2	215-185-5	Sodium hydroxide; Caustic soda	>=98 %	
	Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

Call a physician in any case!

Take off all contaminated clothing immediately.

If there is a risk of loss of consciousness, place and transport affected person in the recovery position.

#### After inhalation

Provide fresh air. Medical treatment necessary. Keep warm and in a quiet place.

If breathing is irregular or stopped, administer artificial respiration. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

#### After contact with skin

After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 3 of 11

#### After ingestion

Rinse mouth immediately and drink 1 glass of water. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

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

Following inhalation: Irritation to respiratory tract, Cough, Dizziness, Pneumonia, Pulmonary oedema. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Following skin contact: Causes burns, erythema (redness), swelling, pain.

After eye contact: Acute eye irritation/corrosion, pain, redness.

Following ingestion: Ingestion of aqueous solution causes gastrointestinal burns. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Treat symptomatically. To supervise the blood circulation. Subsequent observance for pneumonia and lung oedema.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Dry extinguishing powder.

#### Unsuitable extinguishing media

Water, carbon dioxide (CO<sub>2</sub>)

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

Non-flammable.

Fire fighting water forms corrosive alkaline solutions - slip hazard!

Slowly corrodes aluminium and zinc under hydrogen evolution.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Cool containers / tanks with water spray.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### General advice

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Keep people away from and upwind of spill/leak. hygroscopic product

High risk of slipping due to leakage/spillage of product.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Local authorities should be advised if significant spillages cannot be contained.

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

#### For cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

After cleaning, flush away traces with water.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 4 of 11

#### 6.4. Reference to other sections

Safe handling: see section 7  
 Personal protection equipment: see section 8  
 Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. Wear personal protective equipment.  
 Handle and open container with care.  
 When diluting/dissolving, always have the water ready first, then slowly stir in the product.

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

Not flammable.  
 Usual measures for fire prevention.

##### **Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
 Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

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

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

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Unsuitable container/equipment material: Metal. zinc, Tin, aluminium, copper.  
 Suitable container/equipment material: mild steel, Polyethylene.  
 Store at room temperature in the original container.  
 Provide base-resistant floor.

##### **Hints on joint storage**

No special measures are necessary.

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

Keep in a dry place. hygroscopic product

#### 7.3. Specific end use(s)

See also section 16

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 5 of 11

### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1310-73-2	Sodium hydroxide; Caustic soda			
Worker DNEL, long-term		inhalation	local	1,0 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	2,0 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	local	Hohe Gefahr (kein Schwell)
Worker DNEL, acute		dermal	local	2 %
Consumer DNEL, long-term		inhalation	local	1,0 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	2,0 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	local	Hohe Gefahr (kein Schwell)
Consumer DNEL, acute		dermal	local	2 %
Consumer DNEL, long-term		oral	systemic	High hazard (no threshold derived)
Consumer DNEL, acute		oral	systemic	High hazard (no threshold derived)

### PNEC values

CAS No	Substance	Value
1310-73-2	Sodium hydroxide; Caustic soda	
Freshwater		6,4 mg/l
Marine water		0,64 mg/l
Freshwater sediment		23 mg/kg
Marine sediment		2,3 mg/kg
Soil		0,853 mg/kg

### Additional advice on limit values

Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Use only in an area equipped with a safety shower.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Suitable eye protection: goggles.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable gloves type

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 6 of 11

Break through time: >480 min

PVC (> 0,5 mm), butyl-rubber (> 0,5 mm), Fluorinated rubber (0,35 - 0,4 mm), nitrile rubber (0,35 - 0,4 mm).

#### Skin protection

Use of protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Half mask with a particle filter P2 (EN 143).

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

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

Physical state:	solid
Colour:	white
Odour:	odourless

	Test method
Melting point/freezing point:	323 °C 1013 hPa
Boiling point or initial boiling point and boiling range:	1388 °C 1013 hPa
Flammability:	does not ignite
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value (at 20 °C):	> 14 100 g/l
Water solubility: (at 25 °C)	1000 g/L
Solubility in other solvents	
Water: 3420 g/l (at °C: 100)	
Methanol: 238 g/l (at °C: 20)	
Ethanol: 139 g/l (at °C: 20)	
Partition coefficient n-octanol/water:	not applicable
Vapour pressure:	not applicable
Density (at 20 °C):	2,13 g/cm <sup>3</sup>
Bulk density:	1100 - 1200 kg/m <sup>3</sup>
Relative vapour density:	not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is not: Explosive.

##### Self-ignition temperature

Solid:

not determined

Gas:

not applicable

##### Oxidizing properties

Not oxidising.

#### Other safety characteristics

Evaporation rate:

not applicable

Solid content:

not determined

Viscosity / dynamic:

not applicable

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 7 of 11

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Corrosive to metals. Possibility of hazardous reactions.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Reaction with: Acid, Peroxides, Oxidizing agent, alcohols .  
Gives off hydrogen by reaction with metals.  
Exothermic reaction with: water.

### 10.4. Conditions to avoid

Avoid contact with water.

### 10.5. Incompatible materials

Keep away from: Acid, Oxidizing agent, Peroxides, Metal, nitriles, cyanides.  
Aluminium, Tin, zinc, magnesium.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.  
Gives off hydrogen by reaction with metals.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **Irritation and corrosivity**

Causes severe skin burns and eye damage.  
Inhalation: Irritating to respiratory system.  
Inhalation of dust may cause irritation of the respiratory system.  
Aspiration may cause pulmonary oedema and pneumonitis.

#### **Sensitising effects**

No sensitization responses were observed.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

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.

### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **Further information**

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

## SECTION 12: Ecological information

### 12.1. Toxicity

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Ätznatron Prills**

Revision date: 29.06.2022

Product code: 2000211

Page 8 of 11

The product leads to changes in the pH value of the test system. The result refers to an unneutralised sample.  
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

CAS No	Chemical name	Dose	[h]   [d]	Species	Source	Method
1310-73-2	Sodium hydroxide; Caustic soda					
	Acute fish toxicity	LC50 mg/l	45,4	96 h	Oncorhynchus mykiss (Rainbow trout)	IUCLID
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h	Ceriodaphnia spec	Study report (1999)

**12.2. Persistence and degradability**

not applicable.

Inorganic product which is not eliminable from water through biological cleaning processes.

**12.3. Bioaccumulative potential**

Bioaccumulation is unlikely.

**12.4. Mobility in soil**

Not expected to adsorb on soil. (Water solubility)

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

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

Neutralization is normally necessary before waste water is discharged into water treatment plants.

**Further information**

Avoid release to the environment.

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

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 1823

**14.2. UN proper shipping name:**

SODIUM HYDROXIDE, SOLID

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II

Hazard label:

8



Classification code:

C6

Limited quantity:

1 kg

Excepted quantity:

E2

Transport category:

2

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 9 of 11

Hazard No: 80

Tunnel restriction code: E

**Other applicable information (land transport)**

box 4 cans 1 kg: Transport as "limited quantity" according to chapter 3.4 ADR/RID

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1823

**14.2. UN proper shipping name:** SODIUM HYDROXIDE, SOLID

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** II

Hazard label: 8



Classification code: C6

Limited quantity: 1 kg

Excepted quantity: E2

**Other applicable information (inland waterways transport)**

box 4 cans 1 kg: Transport as "limited quantity" according to chapter 3.4. ADN

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1823

**14.2. UN proper shipping name:** SODIUM HYDROXIDE, SOLID

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** II

Hazard label: 8



Special Provisions: -

Limited quantity: 1 kg

Excepted quantity: E2

EmS: F-A, S-B

Segregation group: alkalis

**Other applicable information (marine transport)**

box 4 cans 1 kg: Transport as "limited quantity" according to IMDG-Code 3.4

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1823

**14.2. UN proper shipping name:** SODIUM HYDROXIDE, SOLID

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** II

Hazard label: 8



Limited quantity Passenger: 5 kg

Passenger LQ: Y844

Excepted quantity: E2

IATA-packing instructions - Passenger: 859

IATA-max. quantity - Passenger: 15 kg

IATA-packing instructions - Cargo: 863

IATA-max. quantity - Cargo: 50 kg

**14.5. Environmental hazards**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 10 of 11

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

Warning: strongly corrosive.

#### **14.7. Maritime transport in bulk according to IMO instruments**

no data available

### SECTION 15: Regulatory information

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

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### **Additional information**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

#### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

### SECTION 16: Other information

#### **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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ätznatron Prills

Revision date: 29.06.2022

Product code: 2000211

Page 11 of 11

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

#### Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

#### Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Manufacture of the substance	IS	-	-	1, 2, 3, 4, 8b, 9	1	-	-	Natron prill
2	Industrial uses	IS	-	-	1, 2, 3, 4, 5, 8a, 8b, 9, 10, 11, 13, 15	1, 2, 4, 6a, 6b, 7, 8a, 8b, 8d, 9a	-	-	Natron Prill
3	Professional uses	PW	-	-	1, 2, 3, 4, 5, 8a, 8b, 9, 10, 11, 13, 15	1, 2, 4, 6a, 6b, 7, 8a, 8b, 8d, 9a	-	-	Natron Prill
4	Consumer uses	C	-	20, 35, 39	-	-	-	-	Natron Prill

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories