

Trade name: Natrii hydrogenocarbonas

Substance number: 066224

Version: 5 / CH

Date revised: 13.02.2023

Replaces Version: 4 / CH

Print date: 13.02.23

**SECTION 1: Identification of the substance/mixture and of the company/undertaking \*\*\*****1.1. Product identifier**

Natrii hydrogenocarbonas

Item No. 06622400

**Registration no.**

Registration no. 01-2119457606-32-XXXX

**Substance / product identification**

CAS-No. 144-55-8

EINECS-No. 205-633-8

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/preparation \*\*\***

Manufacture of pharmaceutical products

**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  
person responsible  
for this SDS sdb@haenseler.ch**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**

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Labelling according to regulation (EC) No 1272/2008**

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

**2.3. Other hazards**

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients \*\*\*****3.1. Substances****Molecular weight**

Value 84.01 g/mol

**Further ingredients \*\*\*****Sodium Hydrogencarbonate**

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Registration no. 01-2119457606-32-XXXX  
Concentration >= 95 %  
Advice: [4]

**Note**

[4] Voluntary information

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

**After ingestion**

Rinse out mouth and give plenty of water to drink. By continuous complaints consult a physician. Do not induce vomiting.

**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: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); sodium oxides**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

**Other information**

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Ensure adequate ventilation. Avoid dust formation. Keep away from sources of ignition - No smoking.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

For tall amounts: Take up mechanically and collect in suitable container for disposal. Avoid raising dust.

**SECTION 7: Handling and storage**

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## 7.1. Precautions for safe handling

### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid the formation and deposition of dust. Avoid skin and eye contact. Do not inhale dust.

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

### Recommended storage temperature

Value < 35 °C

### Requirements for storage rooms and vessels

Store product in closed containers. Keep container tightly closed and dry. Do not use metal containers.

### Storage classes

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	NG	Other solid hazardous substances without classification/labelling hazardous

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

### 8.2. Exposure controls

#### Respiratory protection

Breathing apparatus in the event of aerosol.

#### Hand protection \*\*\*

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	nitrile rubber - NBR	
Material thickness	0.11	mm
Breakthrough time	480	min

#### Eye protection

Tightly fitting safety glasses

#### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

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

Physical state	solid	
Colour	white	
Odour	odourless	
Physical state	Powder	
Melting point		
Value	appr. 270	°C
Boiling point or initial boiling point and boiling range		
Remarks	Not applicable	
Flash point		
Value		°C
Remarks	Not applicable	
Decomposition temperature		
Value	> 50	°C

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**pH value**

Value	8.6		
Concentration/H <sub>2</sub> O	50	g/l	
Temperature	20	°C	

**Density and/or relative density**

Value	2.22		g/cm <sup>3</sup>
Temperature	20	°C	

**9.2. Other information****Solubility in water**

Value		to	96	g/l
Temperature	20	°C		

**Bulk density**

Value	950	to	1100	kg/m <sup>3</sup>
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Reactions with acids. Alkaline metals

**10.6. Hazardous decomposition products**

None known

**Other information**

chemical stable

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

Species	rat		
LD50	>	4000	mg/kg

**Sodium Hydrogencarbonate**

Species	rat		
LD50		4220	mg/kg

**Acute inhalative toxicity (Components)****Sodium Hydrogencarbonate**

Species	rat		
LC50	>	4.74	mg/l

**Skin corrosion/irritation (Components)****Sodium Hydrogencarbonate**

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Species	rabbit
evaluation	non-irritant
Method	OECD 404

**Serious eye damage/irritation (Components)****Sodium Hydrogencarbonate**

Species	rabbit
evaluation	non-irritant
Method	OECD 405

**Sensitization**

Remarks	No sensitisation effect known.
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**Subacute, subchronic, chronic toxicity (Components)****Sodium Hydrogencarbonate**

NOEC	> 576	mg/l
Source	Daphnia magna	

**Sodium Hydrogencarbonate**

NOEC	5200	mg/l
Source	Lepomis macrochirus	

**Mutagenicity**

evaluation	No experimental indications on genotoxicity in vivo found.
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**Mutagenicity (Components)****Sodium Hydrogencarbonate**

evaluation	No mutagenicity in the Ames-test.
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**Carcinogenicity**

Remarks	None
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**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****Sodium Hydrogencarbonate**

Species	Gambusia affinis	
LC50	7700	mg/l
Duration of exposure	24	h

**Sodium Hydrogencarbonate**

Species	Bluegill (Lepomis macrochirus)	
LC50	7100	mg/l
Duration of exposure	96	h

**Sodium Hydrogencarbonate**

Species	Gambusia affinis	
LC50	7550	mg/l
Duration of exposure	96	h

**Daphnia toxicity (Components)****Sodium Hydrogencarbonate**

Species	Daphnia magna	
EC50	4100	mg/l
Duration of exposure	48	h

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**Sodium Hydrogencarbonate**

Species	Daphnia magna	
EC50	2350	mg/l
Duration of exposure	48	h

**12.2. Persistence and degradability****Biodegradability (Components)****Sodium Hydrogencarbonate**

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

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

Not applicable

**Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.  
This substance does not meet the vPvB-criteria.

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

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

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

Ecological injuries are not known or expected under normal use.

**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
<b>14.1. UN number</b>	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

**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 1
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Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

## **SECTION 16: Other information**

### **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.