

Trade name: Pufferlösung pH 10

Substance number: 186275

Version: 1 / CH

Date revised: 03.08.2016

Replaces Version: - / CH

Print date: 03.08.16

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

### **1.1. Product identifier**

Pufferlösung pH 10

Item No. 18627500

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

#### **Use of the substance/preparation**

Chemical

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

#### **Address**

Hänseler AG

Industriestrasse 35

9101 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

STOT SE 3 H335

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.

H335

May cause respiratory irritation.

##### **Precautionary statements**

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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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 Ammonia

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008)****Ammonia**

CAS No.	1336-21-6				
EINECS no.	215-647-6				
Concentration	>= 5	<	10		%
Classification (Regulation (EC) No. 1272/2008)	Skin Corr. 1B		H314		
	Aquatic Acute 1		H400		

Concentration limits (Regulation (EC) No. 1272/2008)  
 STOT SE 3 H335 >= 5

Additional remarks:

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

**Ammonium chloride**

CAS No.	12125-02-9				
EINECS no.	235-186-4				
Concentration	>= 1	<	9.7		%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4		H302		
	Eye Irrit. 2		H319		

**Further ingredients****Water**

CAS No.	7732-18-5				
EINECS no.	231-791-2				
Concentration		>=	50		%
Advice: [4]					

**Advice:**

[4] Voluntary information

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

Ensure supply of fresh air. Take medical treatment.

**After skin contact**

Wash skin thoroughly with water (15 min.). Take medical treatment.

**After eye contact**

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Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**After ingestion**

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

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

Causes very strong irritations of the eyes, skin and mucous membranes. Shortness of breath, Coughing, Unconsciousness, Nausea, Vomiting

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings, Extinguish greater fire with water spray or alcohol-resistant foam.

**Non suitable extinguishing media**

not applicable

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

In case of fires, hazardous combustion gases are formed; Ammonia (NH<sub>3</sub>); Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

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

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

Do not inhale vapours. Avoid contact with eyes and skin. Remove persons to safety. Wear protective equipment

**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**

Take up with absorbent material (eg sand, kieselguhr). Dispose of as prescribed. Ensure adequate ventilation.

**6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Avoid formation of aerosols. Ensure proper ventilation in order to avoid vapour concentration higher than the occupational exposure limits.

**Advice on protection against fire and explosion**

No special measures required.

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

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**Recommended storage temperature**

Value 15 25 °C

**Requirements for storage rooms and vessels**

Keep container tightly closed and dry.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values****Ammonium chloride**

List	SUVA	
Type	MAK	
Value	3	mg/m <sup>3</sup>
Status:	2014	

**8.2. Exposure controls****General protective and hygiene measures**

Remove contaminated, soaked clothing immediately and dispose of safely. Do not eat or drink during work time. Do not smoke during work time. Storage of foodstuffs in work rooms is forbidden. Avoid contact with skin and eyes.

**Respiratory protection**

Breathing apparatus in the event of vapours. Breathing apparatus in the event of aerosol or mist formation. Full mask, filter K

**Hand protection**

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Appropriate Material 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.

Material thickness > 0.11 mm

**Eye protection**

Safety glasses with side protection shield

**Body protection**

Clothing as usual in the chemical industry.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid
<b>Colour</b>	colourless, clear
<b>pH value</b>	
Value	9.9 to 10.1
<b>Flash point</b>	
Remarks	Not applicable
<b>Vapour pressure</b>	
Remarks	Not applicable

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

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Risk of explosion with: heat

**10.2. Chemical stability**

No decomposition if stored and applied as directed. Keep away from sources of heat and ignition.

**10.3. Possibility of hazardous reactions**

Keep away from sources of heat and ignition.

**10.4. Conditions to avoid**

Do not keep at temperatures above 25 °C.

**10.5. Incompatible materials**

Iodine, strong acids, Halogens

**10.6. Hazardous decomposition products**

In the event of fire the following can be released: Ammonia, Carbon monoxide and carbon dioxide

**Other information**

Vapours and gases can form an explosive mixture with air.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	5'203.34	mg/kg
	74	

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)****Ammonia**

Species	rat	
LD50	350	mg/kg
Source	GESTIS-Stoffdatenbank ( <a href="http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp">http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp</a> )	

**Ammonium chloride**

Species	rat	
	1650	mg/kg

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

Species	salmon	
NOEC	3.5	mg/l
Duration of exposure	3	d

**Ammonium chloride**

Species	carp (Cyprinus carpio)	
LC50	209	mg/l
Duration of exposure	96	h

**Ammonium chloride**

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	3.98	mg/l
Duration of exposure	96	h

**Ammonium chloride**

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Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
NOEC	57		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****Ammonia**

Species	Daphnia magna		
LC50	32		mg/l
Duration of exposure	50	h	

**Ammonium chloride**

Species	Daphnia magna		
LC50	161		mg/l
Duration of exposure	48	h	

**Ammonium chloride**

Species	Daphnia magna		
NOEC	0.1		mg/l
Duration of exposure	216	h	

**12.2. Persistence and degradability****General information**

For this subsection there is no ecotoxicological data available on the product as such.

**12.3. Bioaccumulative potential****General information**

For this subsection there is no ecotoxicological data available on the product as such.

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

For this subsection there is no ecotoxicological data available on the product as such.

**12.6. Other adverse effects****General information**

For this subsection there is no ecotoxicological data available on the product as such.

**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**

Non-dangerous goods

**Marine transport IMDG/GGVSee**

The product does not constitute a hazardous substance in sea transport.

**Air transport ICAO/IATA**

The product does not constitute a hazardous substance in air transport.

**SECTION 15: Regulatory information**

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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 3

Remarks Classification according to Annex 4 VwVwS

**SECTION 16: Other information****R-phrases listed in Chapter 3**

22	Harmful if swallowed.
34	Causes burns.
36	Irritating to eyes.
50	Very toxic to aquatic organisms.

**Hazard statements listed in Chapter 3**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

**CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Eye Irrit. 2	Eye irritation, Category 2
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.