

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

1.1. Product identifier	
Name of product	pH-Plus flüssig / pH-Plus liquide 411312
1.2. Relevant identified uses of the substance or mixtue Recommended intended purpose(s) pH regulator for swimming pool water	re and uses advised against
1.3. Details of the supplier of the safety data sheet	
Manufacturer/distributor	BAYROL Deutschland GmbH Robert-Koch-Str. 4, D-82152 Planegg Phone +49 (0) 89 85701-0, Fax +49 (0) 89 85701-276 E-Mail bayrol@bayrol.de Internet www.bayrol.de
Advice	E-mail (competent person): ASchwarzenboeck@bayrol.de
1.4. Emergency telephone number	
Emergency advice	Giftnotruf München (oder jedes andere Giftinformationszentrum) Phone +49 (0) 89 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

C; R35

R-phrases

35 Causes severe burns.

Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

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

Hazard classes and Hazard categories	Hazard Statements Classification procedure
Met. Corr. 1	H290
Skin Corr. 1A	H314

Hazard Statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

2.2. Label elements



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



Signal word Danger

Hazard Statements

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

Precautionary Statements

P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 P305 + P351 + P338 P309 + P311	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients for labeling

sodium-hydroxide

2.3. Other hazards

Results of PBT and vPvB assessment

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

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
1310-73-2	215-185-5	sodium-hydroxide	30	C R35
CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
1310-73-2	215-185-5	sodium-hydroxide	30	Skin Corr. 1A, H314



SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely. Symptoms of poisoning may not occur for hours, therefore medical supervision for at least 48 hours necessary. Adhere to personal protective measures when giving first aid.

In case of inhalation

Remove the casualty into fresh air and keep him immobile. Refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water. Seek medical treatment immediately.

In case of eve contact

Eve rinsing with water carefully while protecting unhurt eve. Call for a doctor immediately.

In case of ingestion

Do not give neutralising liquids. Do not induce vomiting. Call for a doctor immediately. Rinse out mouth and give plenty of water to drink.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Use breathing apparatus with independent air supply. Wear full protective clothing.

Additional information

Cool endangered containers with water spray jet. Fire residues and contaminated firefighting 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 No information available.

For non-emergency personnel

Use personal protective clothing.



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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Flush away residues with water. Use chemical neutralizers.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8 Emergency telephone number: see section 1

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin

Hygiene measures

Do not eat or drink when working. Keep away from food and drink. Wash hands before breaks and after work.

Advice on protection against fire and explosion

The product is not combustible. No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels Keep only in original container.

Advice on storage compatibility Do not store together with food.

Further information on storage conditions

Keep container tightly closed. Do not keep at temperatures below 20°C.

Information on storage stability

Storage time: 5 years.

7.3. Specific end use(s) Recommendation(s) for intended use See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter P2



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Hand protection

chemical-resistant gloves

Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374) Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness Butyl rubber (butyl) - 0.7mm layer thickness In view of the many different types, the manufacturers' directions for use must be followed

Eye protection

Safety goggles

Other protection measures

Alkali-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic p Appearance liquid	hysical and che	mical properties Colour colourless		Odour odourless		
Odour threshold No information available.						
Important health, safety an	d environmenta	l information				
	Value	Temperature	at	Method	Remark	
pH value	14	20 °C				
boiling point	> 100 ℃					
Melting point / Freezing point	No informatio	n available.				
Flash point					No flash point below 100℃.	
Vapourisation rate	No informatio	n available.				
Flammable (solid)	No information available.					
Flammability (gas)	No information available.					
Ignition temperature	No information available.					
Self ignition temperature	No informatio	n available.				
Lower explosion limit	No informatio	n available.				
Upper explosion limit	No informatio	n available.				
Vapour pressure	No informatio	n available.				
Relative density	1,32 g/cm3	20 °C		aerometric		
Vapour density	No informatio	n available.				
Solubility in water					multimiscible	



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) revision 14.01.2014 (GB) Version 3.7 **pH-Plus flüssig / pH-Plus liquide** 411312

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	Value	Temperature	at	Method	Remark
Solubility/other	No informat	ion available.			
Partition coefficient n- octanol/water (log P O/W)	No information available.				
Decomposition temperature	No information available.				
Viscosity	No information available.				
Oxidising properties No information available.					
Explosive properties No information available.					
9.2. Other information No information available.					

SECTION 10: Stability and reactivity

10.1. Reactivity Corrosive to metals.

exothermic reaction

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Reactions with acids. In case of addition of water warming up. Reactions with metals, with evolution of hydrogen.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Materials to avoid Aluminium Acid Oxidising agent metal, base

10.6. Hazardous decomposition products Hydrogen

Thermal decomposition

Remark No decomposition if used as directed.



SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	strong corrosive			
Irritability eye	risk of strong eye injuries			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No mutagenity, after different in- vitro studies.
Reproduction- Toxicity				No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity	No information available.			

Experiences made from practice

Corrosive effect on skin and mucous membrane.

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

Product may cause irreversible eye injuries.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicolo	gical effects Value	Species	Method	Validation		
Fish	LC50 35 - 189 g/m3 (96 h)	diverse Spezies				
Daphnia	EC50 40,4 g/m3 (48 h)	Ceriodaphnia spec.				
12.2. Persistence and degradability						

12.2. Persistence and degradabili

Biological degradability

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

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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



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12.6. Other adverse effects

Behaviour in sewage plant

The product is an alkaline solution. Neutralization is normally necessary before waste water is discharged into sewage treatment plants.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

Remove in accordance with local official regulations.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

Recommendations for packaging

Uncontaminated packaging may be taken for recycling.

Recommended cleansing agent

Water

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1824	1824	1824
14.2. UN proper shipping name	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	II	II	II
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.

Land and inland navigation transport ADR/RID Hazard label(s) 8 tunnel restriction code E Classification code C5

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Other regulations (EU) Please note:

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.



SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 3.7

Sources of key data used

Results of own researches and examinations Literature informations Toxicity studies, NIOSH-Tox-Data National legislation and regulation

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 35 Causes severe burns.

H314 Causes severe skin burns and eye damage.