

revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC

414948

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

1.1. Product identifier

Name of product pH-MINUS LIQUID DOMESTIC

414948

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

pH regulator for swimming pool water

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

Advice

E-mail (competent person): ASchwarzenboeck@bayrol.eu

1.4. Emergency telephone number

NCEC, Phone (+44)(0)1865407333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard Hazard Statements Classification procedure

categories

 Met. Corr. 1
 H290

 Skin Irrit. 2
 H315

 Eye Irrit. 2
 H319

Hazard Statements

H290 May be corrosive to metals.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

2.2. Label elements

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



GHS05

Signal word

Warning

Hazard Statements

H290 May be corrosive to metals.

H315 Causes skin irritation.

H319 Causes serious eye irritation.



revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC

414948

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves/eye protection.
P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

P338 easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients for labeling

sulphuric acid ... %

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 Regulation (EC) No 1272/2008 [CLP/GHS]
7664-93-9	231-639-5	sulphuric acid %	14,9	Skin Corr. 1A, H314
REACH				
CAS No	Name			REACH registration number
7664-93-9	sulphuric ac	id %		01-2119458838-20-XXXX

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.

Adhere to personal protective measures when giving first aid.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

In case of skin contact

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

Consult a doctor if skin irritation persists.

In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes.

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.



revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC

414948

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

Physician's information / possible dangers

risk of strong eye injuries

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.

Foam

Dry powder

Carbon dioxide

Water spray jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Sulfur oxide

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

For non-emergency personnel

Use personal protective clothing.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Dilute with plenty of water.

Neutralize with sodium carbonate or slaked lime.

Flush away residues with water.

Do not take up with sawdust or other combustible materials.

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



revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC

414948

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.

Protect from heat and direct solar radiation.

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

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark	
7664-93-9	Sulphuric acid (mist)	8 hours	0,05			

8.2. Exposure controls

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.

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 with side protection



revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC

414948

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

AppearanceColourOdourliquidcolourlessodourless

Odour threshold not determined

Important health, safety and environmental information

•	Value	Temperature	at	Method	Remark
pH value	< 1	20 °C	200 g/l		
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point					No flash point below 100°C.
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1,1 g/cm3	20 °C			
Vapour density	not determined				
Solubility in water					multimiscible
Solubility/other	not determined				
Partition coefficient noctanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				



revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC

414948

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.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Reactions with organic substances.

Reactions with metals, with evolution of hydrogen.

Reactions with alkalies.

10.4. Conditions to avoid

If diluting put acid in water, not reverse.

10.5. Incompatible materials

Substances to avoid

Alkali (lye)

10.6. Hazardous decomposition products

Sulphur trioxide (SO3) - mist

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 2000 mg/kg	rat		
Skin irritation	Causes skin irritation.			
Eye irritation	Causes serious eye irritation.			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation	
Mutagenicity	No data available				



revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC

414948

Value Species Method Validation

Reproduction-Toxicity No data available

Carcinogenicity

No data available

Experiences made from 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

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 16 - 28 g/m3 (96 h)	Lepomis macrochirus		
Daphnia	EC50 29 g/m3 (24 h)	Daphnia magna		

12.2. Persistence and degradability

Elimination rate Method of analysis Method Validation

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.

12.6. Other adverse effects

Behaviour in sewage plant

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

General regulation

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No. Name of waste

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

The product should not be allowed to enter drains, water courses or the soil.



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC

414948

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	2796	2796	2796
14.2. UN proper shipping name	SULPHURIC ACID	SULPHURIC ACID	Sulphuric acid
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 C1

SECTION 15: Regulatory information

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

Regulation (EU) 1272/2008 (CLP), Regulation (EU) 1907/2006 (REACH), DECISION 2000/532/EG (list of wastes)

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

Refer to product information paper.

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: 1.1

Sources of key data used

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) revision 03.09.2018 (GB) Version 1.2

pH-MINUS LIQUID DOMESTIC 414948

H314 Causes severe skin burns and eye damage.