



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006
(REACH), Annex II, as implemented by Regulation
(EU) no 2020/878

Version number: 7.0
Issued: 2026-09-02
Replaces SDS: 2025-10-06

AMBIO pH Control

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

1.1. Product identifier

Trade name

AMBIO pH Control

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

Relevant identified uses

Professional use

For alkalization of drinking water (pH control) and as a corrosion inhibitor.

Not suitable for use in

No additional information

1.3. Details of the supplier of the safety data sheet

Supplier

AMBIO AS

Address

Fabrikkveien 10

4033 Stavanger

Norway

Telephone

+47 51 44 64 00

Email

water@ambio.no

Web site

<https://www.ambio.no>

1.4. Emergency telephone number

In urgent situations: Call 113 and request the poison information centre / Poison Center +47 22 59 13 00

Available outside office hours

Yes

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2. Label elements

The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.

2.3. Other hazards

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
Sodium silicate solution, mol ratio >3.2, solids <40 %	1344-09-8 215-687-4 01-2119448725-31 -	30 - 60%	-	- - -		-

Substance additional information

Mol ratio of SiO₂ and Na₂O >3.2. Tests conducted by CEFIC shows that sodium silicate solutions with mol ratio >3.2 and solid content less than 40% by weight, is not subject to labelling.



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SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Skin contact

Wash with plenty of water and soap. Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

Ingestion

Rinse nose, mouth and throat with water. Do NOT induce vomiting. Get medical attention immediately.

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

Inhalation

Inhalation of vapours may cause respiratory irritation.

Skin contact

Contact during a long period may cause light irritation.

Eye contact

Liquid splashes in the eye may cause irritation.

Ingestion

Ingestion may cause nausea, vomiting and diarrhea.

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

No specific measures identified.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

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Unsuitable extinguishing media

Do not use extinguishing media containing water. Contact with metals produces hydrogen gas which may form explosive mixtures with air.

5.2. Special hazards arising from the substance or mixture

Fire Hazard : The product is not flammable.

Hazardous decomposition products: Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not enter fire area without proper personal protective equipment, including respiratory protection (EN137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures - Provide adequate ventilation. Avoid contact with skin and eyes.

For non-emergency personnel - Emergency procedures: Keep public away from danger area.

For emergency responders - Protective equipment: Equip cleanup and emergency crew with proper protection.

6.2. Environmental precautions

Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment: Collect all waste in suitable and labelled containers and dispose according to local legislation.

Methods for cleaning up: Absorb with inactive materials as vermiculite, sand, dolomite, diatomene etc. Deliver to approved reception facility. Collect and reclaim or dispose in sealed containers to licensed waste plant.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection

SECTION 13: Disposal considerations

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Use personal protective equipment as required. Provide sufficient ventilation during operations which cause vapour formation. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

General hygiene

Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Protect from frost. Store in a dry place.

Incompatible products: May attack light-alloy metals and liberate hydrogen gas.

Incompatible materials: Refer to Section 10 on Incompatible Materials.

Recommended storage temperature: 10-35 °C

7.3. Specific end use(s)

No additional data.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

No substances are listed in the national list of substances with an occupational exposure limit.

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment should be selected according to the CEN standards and in cooperation with the supplier of personal protective equipment. Do not eat, drink or smoke during use.

Personal Protective Equipment Symbols



Eye / face protection

Use eye protection according to EN 166.

Hand protection

Gloves are recommended for prolonged use. Neoprene, nitrile, polyethylene or PVC. Layer thickness: >0,20mm. Breakthrough time: >480 min. STANDARD EN 374.



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Other skin protection

Wear appropriate protective clothing.

Respiratory protection

None under normal use.

Thermal hazards

No information available.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Clear

Odour

None to slight.

Odour threshold

Not determined.

Melting point / freezing point

Not determined.

Boiling point or initial boiling point and boiling range

Not determined.

Flammability

This product is not flammable.

Lower and upper explosion limit

Not available.

Flash point

Not determined.

Auto-ignition temperature

Not determined.

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Decomposition temperature

Not determined.

pH

< 11.5

Kinematic viscosity

Not determined.

Viscosity, dynamic

70 - 100 mPa·s

Solubility

No data available

Water solubility

very soluble

Partition coefficient n-octanol/water

Not available.

Vapour pressure

Not determined.

Density and/or relative density

Not available.

Relative density

1.36 g/cm³

Relative vapour density

Not determined.

Evaporation Rate

Relative evaporation rate (butylacetate=1) - not determined

Explosive properties

Not explosive

Oxidising properties

This product is not flammable.

Particle characteristics

not applicable

9.2. Other information

No information available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

No incompatible groups noted.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

In contact with some metals and water/humid air, hydrogen gas is formed, which may form explosive mixture with air.

10.4. Conditions to avoid

In contact with some metals and water/humid air, hydrogen gas is formed, which may form explosive mixture with air.

10.5. Incompatible materials

Strong acids. May attack light-alloy metals and liberate hydrogen gas.

10.6. Hazardous decomposition products

No decomposition if stored normally.

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.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Remarks
Sodium silicate solu- tion, mol ratio 3,27, solids <40 % 1344-09-8 / 215- 687-4	LD50	5150 mg/kg bw	Oral	Rat	MR 3,27
Water 7732-18-5	LD50	90000 mg/kg bw	Oral	Rat	-



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Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Remarks
Sodium silicate solu- tion, mol ratio 3,31, solids <40 % 1344-09-8 / 215- 687-4	LD50	> 4640 mg/kg	Dermal	Rabbit	-

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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.

Toxicity in case of inhalation

Inhalation of vapours may cause respiratory irritation.

Toxicity in case of skin contact

Contact during a long period may cause light irritation.

Toxicity in case of eye contact

Liquid splashes in the eye may cause irritation.



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Toxicity in case of ingestion

Ingestion may cause nausea, vomiting and diarrhea.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity

Ecology - water : The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

Aquatic

Hazardous to the aquatic environment, short-term (acute) - Not classified

Hazardous to the aquatic environment, long-term (chronic) - Not classified

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
Sodium silicate solution, mol ratio 3,46 (Na), solids <40 % 1344-09-8 / 215-687-4	LC50	1108 mg/L	96h	Danio rerio (zebrafish)	MR 3,46 (Na)
Sodium silicate solution, mol ratio 3,31, solids <40 % 1344-09-8 / 215-687-4	LC50	1800 mg/L	96 h	Gambusia affinis (Mosquito fish)	-
AMBIO pH Control -	LC50	3185 mg/L	96 h	Brachydanio rerio (zebra fish)	-

Acute crustacean toxicity

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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
Sodium silicate solu- tion, mol ratio 3,2, solids <40 % 1344-09-8 / 215- 687-4	EC50	1700 mg/L	48h	Daphnia	MR 3,2
Sodium silicate solu- tion, mol ratio 3,31, solids <40 % 1344-09-8 / 215- 687-4	EC50	494 mg/L	48 h	Daphnia magna (Big water flea)	-
Ambio pH Control -	EC50	4857 mg/L	48 h	Daphnia magna (Big water flea)	-

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Ambio pH Control -	EC50	> 1000 mg/L	48 h	Pseudomonas putida

12.2. Persistence and degradability

AMBIO pH Control - The chemical is readily biodegradable.

12.3. Bioaccumulative potential

AMBIO pH Control - Partition coefficient n-octanol/water (Log Pow): not determined

AMBIO pH Control - Bioaccumulative potential: Not expected to bioaccumulate.

12.4. Mobility in soil

Mobility

AMBIO pH Control - The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.



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12.7. Other adverse effects

Other adverse effects : No additional information
Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Not classified as hazardous waste. Do not allow to enter into surface water or drains.

Dispose in a safe manner in accordance with local/national regulations.

Additional information: The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.

Packaging

Dispose in a safe manner in accordance with local/national regulations.

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

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

Not dangerous goods according to ADR, IATA and IMDG.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

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14.6. Special precautions for user

Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Other

Not applicable

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

Regulation (EU) 2024/590 of the European Parliament and of the Council of 7 February 2024 on substances that deplete the ozone layer, and repealing Regulation (EC) No 1005/2009

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

National regulations

Regulation of 1 June 2004 No. 930 on recycling and treatment of waste (the Waste Regulations).

Regulation of 16 June 2012 No. 622 on the classification, labelling and packaging of substances and mixtures (the CLP Regulation).

Regulation of 30 May 2008 No. 516 on the registration, evaluation, authorisation and restriction of chemicals (the REACH Regulation).

Regulations concerning Action and Limit values, last update: FOR-2026-04-10-580.

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Other regulations, limitations and legal regulations

Restricted to professional users.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Changes to previous revision

SECTION 3: Composition/information on ingredients

SECTION 15: Regulatory information

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 16: Other information

Abbreviations

ADN: European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE: Acute Toxicity Estimate

BCF: Bioconcentration Factor

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL: Derived No Effect Level

EUH-statement: CLP-specific Hazard statement

EWC: European Waste Catalogue

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No Effect Concentration

SCL: Specific concentration limit

SVHC: Substances of Very High Concern

STOT: Specific Target Organ Toxicity

UN: United Nations

vPvB: Very Persistent and Very Bioaccumulative

References to key literature and data sources

European Chemicals Agency Website (ECHA)

Safety Data Sheet AMBIO pH Control (Ver 5.0; 08/06/2021)

Supplier's safety data sheet (Ver 6.0, 07.05.2026)