

SAFETY DATA SHEET

(according to Regulation (EC) No 1907/2006 and to Commission Regulation (EU) 2020/878)

Date of issue / version no.: 27 Dec 2021 / 1.0

Product name: **AZURO pH plus**

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

1.1. Product identifier

Product identifier: **AZURO pH plus**
Other names: sodium carbonate
Index No.: 011-005-00-2
Registration number REACH: 01-2119485498-19-XXXX

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

Identified uses: Pool water chemistry, pH raising agent.
Intended for sale to users.

Unadvisable uses: All other uses not specified in the directions for use.

1.3. Details of the supplier of the safety data sheet

Name of supplier: **Mountfield a.s.**
Registered office/place of business: Mirošovická 697, 251 64 Mnichovice
Telephone number: +420 255 704 261
Fax: +420 255 704 263
www: www.mountfield.cz
e-mail address of competent person responsible for the safety data sheet: info@infobl.cz

1.4. Emergency telephone number

112 (24 hour service) – applicable to EU countries only.
Czech Republic: +420 224 91 92 93; 224 91 54 02 (24hour service)
Klinika nemocí z povolání – Toxikologické informační středisko, Na Bojišti 1, 128 08 Praha 2, CZ

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2; H319

The substance is classified as hazardous within the meaning of Regulation (EC) No 1272/2008.

The most important adverse physical, human health and environmental effects


Causes serious eye irritation.

When used as directed, the product has no adverse environmental effects.

The full texts of all classifications and hazard statements are given in Section 16.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Product identifier:	AZURO pH plus sodium carbonate
Identification number:	Index No.: 011-005-00-2
Hazard pictogram:	
Signal word:	Warning
Hazard statements:	H319 Causes serious eye irritation.
Precautionary statements:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P260 Do not breathe dust. P264 Wash hands thoroughly after handling. P280 Schutzhandschuhe/Augenschutz tragen.

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Supplemental information on the label:

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Note: In order to avoid duplicity of texts, P statements describing first aid and storage and disposal of the product have been omitted since they are part of the complete text on the product label.

2.3. Other hazards

The substance does not meet the criteria for PBT or vPvB classification.

SECTION 3: Composition/information on ingredients

3.1. Substances

Main ingredient

Product identifier	Concentration (% weight)	Index No. CAS No. EC No.	Classification according to Regulation (EC) No 1272/2008
sodium carbonate (REACH No. 01-2119485498-19-XXXX)	> 98%	011-005-00-2 497-19-8 207-838-8	Eye Irrit. 2; H319

3.2. Mixtures

The product is a substance.

SECTION 4: First aid measures

4.1. Description of first aid measures

General instructions:

If health problems occur, if in doubt, or if an accident occurs, seek medical help and provide information from this Safety Data Sheet. In all cases make sure the affected person stays calm and does not get chilled.

If not breathing: immediate artificial respiration necessary.

Cardiac arrest: immediate external cardiac massage necessary.

Unconsciousness: place and transport the affected person in an emergency position.

Inhalation:

Take the affected person to fresh air and protect them against getting chilled. If problems persist, seek medical help.

Skin contact:

Remove contaminated clothing. Wash affected areas with lukewarm water for at least 15 minutes. If skin is not damaged, soap, soap solution or shampoo may be used. If problems persist, seek medical help. Contaminated clothing must be washed before being reused.

Eye contact:

Immediately start rinsing wide open eyes from the inner towards the outer corner with slight stream of potable water and continue for at least 15 minutes. If contact lenses are worn, remove them immediately. Eyes must not be rubbed! Seek medical help.

Ingestion:

Immediately rinse oral cavity with water. DO NOT INDUCE vomiting. Give a sufficient quantity of water to drink, taking sips (diluting effect). Do not give anything by mouth if the affected person is unconscious or convulsing. Seek medical help for a person with health problems. If the person is symptomless, call the Toxikologické informační středisko to decide on the necessity of undergoing medical treatment.

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

Inhalation:

Inhalation of dust may cause irritation of airways.

Skin contact:

Long-term contact with the product may cause skin irritation. Irritating effects are manifested in wet environments.

Eye contact:

Contact with eyes causes irritation. May cause conjunctivitis. Affected eyes must not be rubbed!

Ingestion:

Ingestion of several grams of the product may cause impaired ingestion.

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

Notes for medical personnel: first aid, decontamination, symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Dissipated water stream, powder, foam, carbon dioxide (CO₂). The substance is not flammable. Choose extinguishing media according to the fire extent. Limit dust with water beam.

Unsuitable extinguishing media: Not specified.

5.2. Special hazards arising from the substance or mixture

Toxic products may be formed in thermal degradation. Avoid inhalation of combustion products.

5.3. Advice for firefighters

Do not enter the fire site without appropriate protective clothing and self-contained breathing apparatus (EN 137). Remove the product from the fire site, if possible. Enclose the risk area and make sure there is no unauthorised access. Extinguish the fire from a safe distance. Cool down containers with the product using water shower or mtst. Dispose of extinguishing water contaminated with the product in compliance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent further spreading of the product. Minimise dustiness. Limit dust with water beam. Avoid contact with skin and eyes. Do not inhale dust. Ventilate closed spaces. Use personal protective equipment.

6.2. Environmental precautions

Prevent excessive contamination of water and soil. If a significant quantity of the substance enters ground or surface waters, inform relevant authorities.

6.3. Methods and material for containment and cleaning up

Collect mechanically. Minimise dustiness. Place into a suitable waste collection container. Wash the area with water. Prior to discharging, dilute the water used for washing to subthreshold concentration of the substance specified for surface waters. For disposal of waste see Section 13.

6.4. Reference to other sections

Observe also provisions given in Sections 8 and 13 of this Safety Data Sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Instructions for fire protection:

Storage rooms must comply with the requirements of fire safety for buildings, electrical equipment must comply with valid regulations.

Instructions for safe handling:

Ensure sufficient ventilation of the workplace. Prevent formation of dust. No eating drinking or smoking at work; personal hygiene rules must be observed. Use personal protective equipment (see Section 8). Avoid contact with skin and eyes. Do not inhale dust. Handle carefully, protect the product against mechanical damages. Wash hands and face thoroughly with water and soap after finishing work.

Measures to protect the environment:

Prevent uncontrolled release of the product into environmental compartments. Do not discharge it into the sewer system, watercourses, and soil. Prevent dust release and occurrence of dustiness. Collect damaged packaging mechanically and dispose of, if safe to do so. If a release occurs, proceed according to Section 6.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original containers in a cool, dry, and well ventilated place.

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Store away from sources of ignition (naked flame, sparks, hot surfaces).

Protect from humidity. The substance is hygroscopic. Store separately from foods, beverages, and feedstuffs.

7.3. Specific end use(s)

Specific use is given in the instructions for use on the product packaging label or in the product documentation.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values according to Directive 2000/39/EC, as amended – are not specified

Limit values of biological exposure tests indicators are not specified in Directive no. 98/24/EC, as amended.

DNEL

Workers: 10 mg/m³ – human exposure, inhalatory, long-term exposure, local effects

Users: 10 mg/m³ – human exposure, inhalatory, short-term exposure, local effects

PNEC – are not specified

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Where exposure of employees is possible, it is appropriate to install eye fountain and emergency shower (or at least a suitable water outlet) at the work place for providing first aid. Ensure sufficient ventilation. In case of insufficient ventilation use local extraction.

Minimise dust formation. Wash hands with soap and warm water after work and apply suitable regenerating cream. Observe safety directions for handling chemicals.

8.2.2. Individual protection measures, such as personal protective equipment

Regulation (EU) No 2016/425 introduce all personal protective equipment used.

<i>Eye/face protection:</i>	Protective goggles (EN 166) if there is risk of eye contact. Do not wear contact lenses.
<i>Skin protection:</i>	<i>Hand protection:</i> Protective rubber gloves (EN 374-1). Protective hand cream. The glove material must be impervious and product-resistant. Observe the manufacturer's directions regarding the penetrability and penetration time. Glove materials / penetration time / glove thickness: Butyl rubber / ≥ 8 hrs. / 0.5 mm Natural rubber / ≥ 8 hrs. / 0.5 mm Polychloroprene / ≥ 8 hrs. / 0.5 mm Nitrile rubber / ≥ 8 hrs. / 0.35 mm Fluoride rubber / ≥ 8 hrs. / 0.4 mm Polyvinylchloride / ≥ 8 hrs. / 0.5 mm <i>Other skin protection:</i> Suitable protective clothing and footwear. Contaminated clothing must be washed before being reused.
<i>Respiratory protection:</i>	Required if dust is formed. In case of dust occurrence, use a respirator with dust filter P2. Use self-contained breathing apparatus in case of fire, accident, or high concentration. Warning: filter breathing apparatuses do not protect workers in environments with lack of oxygen!
<i>Thermal hazards:</i>	None.

8.2.3. Environmental exposure controls

Observe handling and storage conditions, especially securing places to prevent releases into watercourses and the sewer system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Powder or crystals
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Colour	White
Odour	Odourless
Melting point/freezing point	853 °C
Boiling point or initial boiling point and boiling range	Not applicable
Flammability	Not flammable
Lower and upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	> 400 °C
pH	11.6 (100 g/l at 20 °C)
Kinematic viscosity	Not applicable
Solubility	In water: soluble (3.5 parts of water)
Partition coefficient n-octanol/water (log value)	Not specified
Vapour pressure	Not applicable
Density and/or relative density	2.53 g/cm ³ at 20 °C
Relative vapour density	Not applicable
Particle characteristics	Not specified

9.2. Other information

Data not available

SECTION 10: Stability and reactivity

10.1. Reactivity

When stored and handled as specified, no hazardous reactions occur.
Hazardous polymerisation does not occur.

10.2. Chemical stability

Stable at normal conditions (20 °C; 101.3 kPa).

10.3. Possibility of hazardous reactions

Forms explosive mixtures with aluminium.

10.4. Conditions to avoid

Avoid high temperatures, humidity. The product is hygroscopic.

10.5. Incompatible materials

Separate from: ammonia, silver nitrate, sulphuric acid, lithium, hydrogen peroxide, phosphorus pentoxide, fluorine, sodium sulfide, dinitrotoluene, trinitrotoluene, water.
Concentrated and hot solutions may have a partially corrosive effect on steel.

10.6. Hazardous decomposition products

Decomposition begins at: 400 °C.

Hazardous decomposition products include carbon oxides (CO, CO₂).

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.

- LD ₅₀ , oral, rat (mg.kg ⁻¹):	4,090
- LD ₅₀ , dermal, mouse (mg.kg ⁻¹):	2,210
- LD ₅₀ , intraperitoneally, mouse (mg.kg ⁻¹):	117
- LC ₅₀ , inhalation, rat (mg.l ⁻¹):	Aerosols, particles: 2,300 mg/m ³ in 2 hrs.

Skin corrosion/irritation

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

Skin irritation: rabbit, 500 mg/24 hrs. – mildly irritating.

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Serious eye damage/irritation

Causes serious eye irritation.

Eye irritation: rabbit, 100 mg/24 hrs. – mildly irritating.

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.

Prolonged or repeated inhalation may cause perforation of nasal septum.

Prolonged or repeated skin contact may cause damage to tissues and burns.

Aspiration hazard

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

Symptoms and effects

Inhalation: irritation of respiratory system, coughing, bronchitis.

Eye contact: Causes irritation. May cause tearing, cornea burning, conjunctivitis. Affected eyes must not be rubbed! Serious risk of damage to eyes if the substances gets deep inside.

Skin contact: Irritating effects manifested in wet environments. May cause reddening, damage to tissues with burns and oedemas.

Ingestion: Ingestion of several grams of the product may cause impaired ingestion. May cause irritation in mouth, throat, oesophagus, and stomach; stomach pains.

11.2. Information on other hazards

Endocrine disrupting properties

No relevant data available.

SECTION 12: Ecological information

12.1. Toxicity

The product is not classified as hazardous to the environment.

Local undesirable ecotoxic effects may manifest through a change in pH when the product is poured in a large quantity into water.

- LC ₅₀ , 96 hrs., fish (mg.l ⁻¹):	Data not given
- EC ₅₀ , 48 hrs., crustacea (mg.l ⁻¹):	Data not given
- IC ₅₀ , 72 hrs., algae (mg.l ⁻¹):	Data not given

12.2. Persistence and degradability

Methods of biodegradability assessment may not be applied to inorganic substances.

12.3. Bioaccumulative potential

Does not accumulate in biological tissues.

12.4. Mobility in soil

Data not given.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB classification.

12.6. Endocrine disrupting properties

No relevant data available.

12.7. Other adverse effects

Prevent releases to surface waters, soil, and the sewer system.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommended disposal method for legal persons and physical persons authorised to enterprise:

Minimise dustiness. Limit dust with water stream. Must not be disposed of together with municipal waste. No to be discharged to the sewerage. Place unused preparation and contaminated packaging into labelled waste collection containers, hand over labelled waste for disposal to a specialised company authorised to carry out such activities.

Recommended disposal method: the product shall be recycled, if possible, or incinerated in an approved plant. Incineration or landfilling may be considered only when recycling is not possible. Contaminated packaging must be cleaned before being recycled. Cleaned packaging shall be recycled. Not to be mixed with other wastes.

Catalogue numbers of waste types are to be assigned by the user upon the product application used and other facts. European Waste Catalogue (EWC):

Recommended waste code: 16 05 07
Contaminated packaging: 15 01 10
Cleaned empty packaging: subgroup 15 01 xx

Legal regulations relating to waste

Directive on waste 2006/12/EC and 2008/98/EC. Disposal must be made according to official regulations.

SECTION 14: Transport information

Not subject to ADR, RID, ADN, ICAO/IATA, IMDG provisions.

14.1. UN number or ID number	Not subject to ADR, RID, ADN, ICAO/IATA, IMDG provisions
14.2. UN proper shipping name	Not subject to ADR, RID, ADN, ICAO/IATA, IMDG provisions
14.3. Transport hazard class(es)	Not subject to ADR, RID, ADN, ICAO/IATA, IMDG provisions
14.4. Packing group	Not subject to ADR, RID, ADN, ICAO/IATA, IMDG provisions
14.5. Environmental hazards	Not subject to ADR, RID, ADN, ICAO/IATA, IMDG provisions
14.6. Special precautions for user	Not known
14.7. Maritime transport in bulk according to IMO instruments	Not known

SECTION 15: Regulatory information

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

Restrictions on the substances or mixtures according to Annex XVII of the REACH: 3.

Candidate list (SVHC list of substances) – REACH article 59: none.

Substances subject to authorization (Annex XIV of the REACH Regulation): none.

SEVESO III (Directive 2012/18/EU): none.

Regulation (EC) of the European Parliament and of the Council No 1907/2006 on Registration, evaluation, authorisation and restriction of chemicals (REACH)

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

Regulation (EU) of the European Parliament and of the Council No 528/2012 concerning the making available on the market and use of biocidal products

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The recipient of the substance or mixture must take measures following the legal status of the substance or mixture (including substances contained in the mixture) in compliance with domestic legislation of the particular member state, and to list those legal regulations here.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: Other information

Changes to the SDS

Date of issue of the manufacturer's SDS: 1 Dec 2017 / 2.0

Revision history:

Version	Date	Changes
1.0	27 Dec 2021	First issue according to Regulation (EC) of the European Parliament and of the Council No 1907/2006

Legend to abbreviations and acronyms

CAS	Chemical Abstract Service
EC	European Community number of a chemical for EINECS, ELINCS and NLP inventories
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	Very Persistent and Very Bioaccumulative
PNEC	Predicted No Effect Concentration(s)
DNEL	Derived No Effect Level
LD ₅₀	Lethal Dose to 50% of a test population (Median Lethal Dose)
LC ₅₀	Lethal Concentration to 50% of a test population
EC ₅₀	Half maximal effective concentration
IC ₅₀	Half maximal inhibitory concentration
SVHC	Substances of Very High Concern
Flam. Liq.	Flammable liquids
Flam. Sol.	Flammable solids
Aerosol	Aerosols
Flam. Gas	Flammable gases
Press. Gas	Gases under pressure
Ox. Liq.	Oxidising Liquids
Ox. Sol.	Oxidising Solids
Met. Corr.	Corrosive to metals
Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Serious eye irritation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Sensitisation - Skin
Resp. Sens.	Sensitisation - Respiratory
STOT SE	Specific target organ toxicity - Single exposure
STOT RE	Specific target organ toxicity - Repeated exposure
Asp. Tox.	Aspiration hazard
Repr.	Reproductive toxicity
Carc.	Carcinogenicity
Muta.	Germ cell mutagenicity
Aquatic Acute	Hazardous to the aquatic environment - Acute Hazard
Aquatic Chronic	Hazardous to the aquatic environment - Chronic Hazard

Key literature references and sources for data

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

Methods used for classification

The substance classification was assessed by the manufacturer and adopted by the distributor upon Art. 4, par. 5 of Regulation (EC) No. 1907/2006 (use of classification derived by a supply chain participant).

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List of relevant hazard statements and precautionary statements used in the SDS

H319 Causes serious eye irritation.

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

P102 Keep out of reach of children.

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

P280 Schutzhandschuhe/Augenschutz tragen.

Training advice

According to article 35 of Regulation (EC) of the European Parliament and of the Council no. 1907/2006, workers and their representatives shall be granted access by their employer to the information provided in the SDS in relation to the product that they use or may be exposed to in the course of their work.

The occupational safety at the workplace is governed by Directive 91/383/EEC.

Other information

For further information see Section 1.3.

This Safety data Sheet contains data for ensuring occupational safety and health protection and protection of the environment. The data provided correspond to the current state of knowledge and experience and comply with currently valid legal regulations. However, they may not be considered to be any guarantee of the product suitability and usability for particular applications.