(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 minus

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

1.1. Product identifier

Product identifier: AZURO pH minus
Other names: sodium hydrogensulphate

Index No.: 016-046-00-X

Registration number REACH: 01-2119552465-36-0000

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

<u>Identified uses:</u> Pool water chemistry, pH lowering agent.

Intended for sale to users.

<u>Unadvisable uses:</u> 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 Dam. 1; H318

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 damage.

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 minus

sodium hydrogensulphate

Identification number:

Index No.: 016-046-00-X

Hazard pictogram:

Signal word:

Danger

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

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

hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Schutzhandschuhe/Schutzkleidung/Augenschutz tragen.

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

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Supplemental information on the label:

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. Inhalation of dust may cause irritation of airways.

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 hydrogensulphate (REACH No. 01-2119552465-36-0000)	> 95%	016-046-00-X 7681-38-1 231-665-7	Eye Dam. 1; H318

3.2. Mixtures

The product is a substance.

SECTION 4: First aid measures

4.1. Description of first aid measures

General instructions: In case of any doubt, symptoms or any problems occurrence, seek

medical help and show this Safety Data Sheet or the product label. Never .give anything by mouth to an unconscious person. Immediately remove clothing contaminated with the product. The first-aiders must protect

themselves.

<u>Inhalation:</u> Take the affected person from the risk area, to fresh air and a quiet place.

If problems occur or persist, seek medical help. If the affected person is unconscious, place them into the recovery position. In case of irregular breathing or pulmonary arrest, conduct artificial respiration or provide breathing support. Do not conduct mouth-to-mouth or mouth-to-nose

breathing.

Skin contact: Wash the affected skin with soap and water, rinse thoroughly, and – if

necessary-treat with regenerating cream. Do not use any solvents. If skin $\,$

irritation or other problems occur, consult a doctor.

Eye contact: Open eyelids wide, remove contact lenses if worn, and rinse the affected

eye thoroughly with clean running water for at least 5 minutes. Seek

medical help immediately.

<u>Ingestion:</u> Rinse mouth with water thoroughly, give plenty of water to drink, do not

induce vomiting. Place the affected person in a warm, quiet place. Seek

medical help immediately.

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

<u>Inhalation:</u> Coughing, breathlessness, sore throat.

Skin contact: Reddening, pains, blisters.

Eye contact: Reddening, pains.

<u>Ingestion:</u> Stomach pains, stinging pain.

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

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

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

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), powder, foam, dissipated water stream, mist.

Adapt the extinguishing method to surrounding conditions.

<u>Unsuitable extinguishing media:</u> Strong water jet.

5.2. Special hazards arising from the substance or mixture

Irritating, toxic, and hazardous products of combustion may form in fire. Sulphur oxides (sulphur dioxide, sulphur trioxide) may be released in fire. Inhalation of hazardous decomposition products of combustion may cause damage to health.

5.3. Advice for firefighters

Do not inhale gases from explosions and fire. Choose protective equipment according to the fire extent. Self-contained breathing apparatus (EN 137) a complete protective clothing (EN 469). Use water to cool down products in closed containers located close to the fire. Remove products in undamaged containers from the risk area, if possible. Keep contaminated extinguishing water separately, do not discharge it into the sewer system. Dispose of the extinguishing water or used extinguishing media, together with combustion remains, in compliance with relevant regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation of the affected area. Prevent dust formation. Avoid contact of the product with eyes, skin, and clothing, use personal protective equipment. Do not inhale vapours/dust. If ventilation is insufficient, use a breathing apparatus. Use protective gear. Unprotected persons may not get close. Enclose the risk area and provide relevant warning and safety signs.

6.2. Environmental precautions

Make sure the released quantity does not increase. Prevent the product from entering the sewer system, soil, ground and surface waters. In case of a more extensive release into the environment, proceed in compliance with local regulations and contact relevant authorities.

6.3. Methods and material for containment and cleaning up

Collect mechanically and place in suitable, labelled containers. Alternatively, use a broom or a suitable vacuum cleaner. Wash the product remains with plenty of water. Prevent dust formation. Ensure sufficient ventilation.

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:

Observe general and fire prevention regulations.

<u>Instructions for safe handling:</u>

Read the content of Sections 2, 6, 8, and 11 of this SDS before using the product. Ensure sufficient ventilation of the work area. Prevent dust formation. Do not inhale dust. Avoid contact of the product with skin and eyes, use personal protective equipment. Observe instructions given on the product packaging label and directions for use. Eating drinking or smoking at work, as well as keeping food at the workplace, is prohibited. Wash hands and take off contaminated work clothes before taking a break and after finishing work. Keep contaminated clothing separately. Observe legal protection and safety regulations relating to handling chemicals.

Measures to protect the environment:

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.

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

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7.2. Conditions for safe storage, including any incompatibilities

Store in a dry and well ventilated place. Protect from heat and direct sunlight. Protect from moisture, UV radiation, sunlight. Keep containers tightly closed.

Storage space requirements: smooth floors and walls without joints. Keep only in original, tightly closed containers.

Recommended storage temperature: +10 to +30 °C (relative air humidity 10–55%)

Shelf life: 24 months.

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 – are not specified

PNEC

Freshwater: 11.09 mg/l Marine water: 1.109 mg/l

Microorganisms in STP (sewage treatment plant toxicity): 800 mg/l

Sediment (freshwater): 40.2 mg/kg dry sediment weight Sediment (marine water): 4.02 mg/kg dry sediment weight

Soil (agricultural): 1.54 mg/kg dry soil weight

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure sufficient ventilation either through local extraction of workplace air, or overall air-conditioning system of the building. If this is not sufficient for maintaining the concentrations below threshold exposure values for workplaces, approved respiratory protection must be used. This applies only if exposure limits are determined.

8.2.2. Individual protection measures, such as personal protective equipment

Regulation (EU) No 2016/425 introduce all personal protective equipment used. Only personnel using personal protective equipment may handle the preparation. Provide eye fountain at the workplace.

General protection and hygienic precautions:

Do not use in the vicinity of foods, beverages, and feedstuffs. No eating drinking, smoking, or snuffing at work. Remove contaminated, soaked clothing immediately. Wash hands before taking a break and after finishing work. Avoid contact with skin and eyes. Do not inhale dust.

Eye/face protection:	Tightly fitting goggles with side shields (EN 166).
	The workplace must be equipped with bottles with eye rinsing agent or an eye
	fountain. An emergency shower must be available nearby.
Skin protection:	Hand protection:
-	Protective gloves (EN 374-1).
	Choose the glove material according to the penetration time, permeability, and
	degradation. The correct selection of suitable gloves depends not only on the
	material, but also on other qualitative indicators which may differ in various
	manufacturers. Glove material:
	Material for prolonged contact (> 480 minutes): natural rubber/ natural latex – NR,
	recommended material thickness: 0.5 mm.
	Polychloroprene – CR, recommended material thickness: 0.5 mm
	Nitrile rubber/nitrile latex – NBR, recommended material thickness: 0.5 mm
	Butyl rubber – Butyl, recommended material thickness: 0.5 mm
	Fluoro rubber – FKM, recommended material thickness: 0.4 mm
	Polyvinylchloride – PVC, recommended material thickness: 0.5 mm
	Glove material penetration time: > 480 minutes
	It is necessary to find out and observe exact times of penetration through the glove

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	material. The penetration times are determined for +22 °C and prolonged contact.
	These times are reduces by higher temperatures and reduced effective thickness of
	the material of the gloves due to their stretching. Contact relevant manufacturers
	for particular cases.
	The values apply to a pure substance. If used for a mixture of substances, they can
	be considered only as auxiliary approximate values. Unsuitable materials: textile,
	leather.
	Other skin protection:
	Use long-sleeved protective clothing (EN 6529) and safety footwear (EN 20345).
Respiratory protection:	If dust is formed, use a suitable half-mask with particle filter P2 or P3 (EN 140).
	Observe recommended time limitations for the use of breathing masks with filters.
	Recommended filter equipment for short-time use: P1 filter (EN 143), colour
	marking: white stripe.
Thermal hazards:	None.

8.2.3. Environmental exposure controls

Prevent release to the sewer system, soil, ground and surface waters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

7.1. Information on busic physical and elemical properties		
Physical state	Solid, crystals	
Colour	White	
Odour	Odourless	
Melting point/freezing point	179 °C	
Boiling point or initial boiling point and	Not specified	
boiling range		
Flammability	Not flammable	
Lower and upper explosion limit	Not specified	
Flash point	Not applicable	
Auto-ignition temperature	Not self-ignitable	
Decomposition temperature	460 °C	
pH	Not applicable	
Kinematic viscosity	Not applicable	
Solubility	In water: 1,050 g/l at 20 °C	
Partition coefficient n-octanol/water (log	Not specified	
value)		
Vapour pressure	Not applicable	
	2.44 g/cm ³ at 20 °C	
Density and/or relative density	Bulk density: 1,200–1,500 kg/m ³	
Relative vapour density	Not applicable	
Particle characteristics	Not specified	

9.2. Other information

M.1	120.06 - /1
Molar weight:	120.06 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactive substances are known, with which the substance could come in contact during transport, storage and usage.

10.2. Chemical stability

Stable under normal ambient conditions at storage and handling.

10.3. Possibility of hazardous reactions

The substance releases hydrogen in an aqueous solution and in contact with metals.

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

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10.4. Conditions to avoid

When heated: danger of closed packaging rupturing.

10.5. Incompatible materials

Strong acids, oxidising agents.

10.6. Hazardous decomposition products

Irritating gases and vapours may form in thermal decomposition. Possible release of sulphur oxides in fire. Thermal decomposition starts at $460\,^{\circ}\text{C}$.

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):	> 2,000, OECD 423 (sodium sulphate)
- LD ₅₀ , dermal, rabbit (mg.kg ⁻¹):	Data not given
- LC ₅₀ , inhalation, rat (mg.l ⁻¹):	> 2.4 in 4 hrs. (sodium sulphate)

NOAEL, orally:

1,000 mg/kg rat, OECD 421 Repr./Develop mental Tox. Screen. test, sodium sulphate, analogous conclusion NOAEL, inhalatory:

1,000 mg/kg mouse, OECD 421 - Repr./Develop mental Tox. Screen. test, sodium sulphate, analogous conclusion

1,000 mg/kg rat, OECD 414 - Prenatal Developmental Tox. Study, sodium sulphate, analogous conclusion Skin corrosion/irritation

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

No irritating effects (rabbit, OECD 404 – Acute Dermal Irritation/Corrosion).

Serious eye damage/irritation

Causes serious eye damage.

Irritating effects (OECD 405 – Acute Eye Irritation/Corrosion).

Respiratory or skin sensitisation

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

Guinea pig: no sensitising effects (OECD 406 - Skin Sensitisation, sodium sulphate, analogous conclusion).

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.

Further information

Short-term exposure effects: the substance irritates eyes, skin, and airways.

Notes: the substance is hygroscopic and its particles tend to get larger when passing through airways.

Further information: Skin irritation may occur. Irritation of airways.

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 for the environment.

Water hazard class (WGK) = 1, slightly hazardous to water.

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- LC ₅₀ , 96 hrs., fish (mg.l ⁻¹):	7,960 mg/l (EPA 600/4-90/027) <i>Pimephales promelas</i> , sodium sulphate,
	analogous conclusion
- EC ₅₀ , 48 hrs., crustacea (mg.l ⁻¹):	1,766 mg/l (EPA 600/R-94/024) Daphnia magna, sodium sulphate,
	analogous conclusion
	757 mg/l in 96 hrs. (Sediment Toxicity) <i>Hyalella azteca</i> , sodium sulphate,
	analogous conclusion
- IC ₅₀ , 72 hrs., algae (mg.l ⁻¹):	1,900 mg/l in 5 days <i>Nitzschia linearis</i> , sodium sulphate, analogous
	conclusion
NOEC:	8 mg/l (bacteria)
	1,109 mg/l (ASTM E 1295-01) daphnia <i>Ceriodaphnia dubia</i> , sodium
	sulphate, analogous conclusion

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Upon the bioaccumulative potential data submitted, long-term damages to the environment is not probable.

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

Undiluted product, or its larger quantity, must not enter groundwater, surface water or the sewer system. Release of larger quantities into the sewer system or watercourses may cause pH decrease. Low pH value harms aquatic organisms. The pH value increases significantly after dilution to the application concentration, so wastewaters discharged into the sewer system after the product is used present only slight hazard to water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Must not be disposed of together with municipal waste. No to be discharged to the sewer system. 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: 06 03 14 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
This er number of 12 number	provisions

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

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14.2. UN proper shipping name	Not subject to ADR, RID, ADN, ICAO/IATA, IMDG	
1 1 11 0	provisions	
14.3. Transport hazard class(es)	Not subject to ADR, RID, ADN, ICAO/IATA, IMDG	
The Transport Mazara class (cs)	provisions	
14.4. Packing group	Not subject to ADR, RID, ADN, ICAO/IATA, IMDG	
14.4. I acking group	provisions	
14.5. Environmental hazards	No	
14.6. Special precautions for user	Not known	
14.7. Maritime transport in bulk according	Not known	
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

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

LD₅₀ Lethal Dose to 50% of a test population (Median Lethal Dose)

LC₅₀ 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

Aerosols Aerosols

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Flam. Gas Flammable gases Press. Gas Gases under pressure Oxidising Liquids Ox. Liq. Ox. Sol. Oxidising Solids Met. Corr. Corrosive to metals Acute Tox. Acute toxicity Serious eye damage Eye Dam. 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).

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

H318 Causes serious eye damage.

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

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Schutzhandschuhe/Schutzkleidung/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.