

SAFETY DATA SHEET

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

Date of issue / version no.: Revision: 24 Jan 2022 / 2.0

Supersedes version of: 27 March 2017 / 1.0

Product name: **AZURO ALG**

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

1.1. Product identifier

Product identifier: **AZURO ALG**
Other names, synonyms: None given
Registration number REACH: Not applied for mixture

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

Identified uses: Swimming pool chemical – preparation for preventing and removing algae. Biocidal product. Intended for sale to the consumer.

Unadvisable uses: None known.

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, CZ
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

Skin Corr. 1B; H314

Eye Dam. 1; H318

Aquatic Acute 1; H400

Aquatic Chronic 2; H411

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

The most important adverse physical, human health and environmental effects


Causes severe skin burns. Causes serious eye damage.

Very toxic to aquatic life. Toxic to aquatic life with long lasting 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 ALG
Chemical names of dangerous substances:	Alkyl (C12-16) dimethylbenzyl ammonium chloride 150 g/kg
Hazard pictogram:	
Signal word:	Danger
Hazard statements:	H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.

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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 vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P405 Store locked up.

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.

Packaging intended for sale to consumer must be fitted with a **tactile warnings of danger** and **child-resistant fastenings**.

Indication on the label must comply with the requirements of Regulation (EU) No. 528/2012 concerning the making available on the market and use of biocidal products.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances

The product is a mixture of more substances.

3.2. Mixtures

Product identifier:	Concentration (% weight)	Index No. CAS No. EC No.	Classification according to Regulation (EC) No 1272/2008
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides* (REACH No. 01-2119970550-39)	15%	- 68424-85-1 270-325-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 M = 10 Aquatic Chronic 1; H410 M = 1

*Other name: Alkyl (C12-16) dimethylbenzyl ammonium chloride

INCI name: BENZALKONIUM CHLORIDE

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Pay attention to your own safety. If health problems occur, or if in doubt, contact a doctor and submit information from this SDS. If the affected person is unconscious, place them into the recovery position on their side with their head slightly tilted back, and make sure their airways are free of any obstacles; never induce vomiting. If vomiting occurs, prevent aspiration of the vomitus. In life-threatening conditions carry out resuscitation immediately and call medical help.

Pulmonary arrest – start with artificial respiration immediately.

Cardiac arrest – start with external cardiac massage immediately.

Inhalation:

Pay attention to your own safety, do not let the affected person walk! Stop the exposure immediately, take the affected person to fresh air. Beware of contaminated clothing. If required by the situation, call an ambulance and

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<u>Skin contact:</u>	ensure medical treatment due to frequent necessity of further monitoring for at least 24 hours. Take off contaminated clothing. Remove rings, watches, bracelets before or during the washing, if they are located on contaminated skin. If required by the situation, call an ambulance and always ensure medical treatment. Wash the affected area with running lukewarm water for at least 10–30 minutes; do not use any brush, soap, or neutralising agents. Rinse/shower the skin with water. Rinse with water for several minutes.
<u>Eye contact:</u>	Start rinsing eyes immediately with running water, with eyelids apart (use force if necessary); remove contact lenses immediately if present. On no account perform neutralisation! Keep rinsing for 10–30 minutes, from the inner towards the outer corner to protect the other eye from getting contaminated. If required by the situation, call an ambulance or ensure medical treatment as soon as possible. Every contaminated person must be sent to medical examination regardless of the contamination scope.
<u>Ingestion:</u>	DO NOT INDUCE VOMITING – the risk of further damage to the digestive tract!!! The risk of gullet and stomach perforation! RINSE MOUTH WITH WATER IMMEDIATELY AND GIVE 2–5 dl COOL WATER TO DRINK to reduce the thermal effect of the corrosive substance. Avoid a large quantity of water since it could induce vomiting followed by possible aspiration of the substance into the lungs. The affected person must not be forced to drink, especially if suffering pain in mouth or throat. In that case have them only rinsed their mouth with water. DO NOT GIVE CHARCOAL! Call an ambulance or ensure medical treatment as soon as possible, according to the situation.

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

<u>Inhalation:</u>	Inhalation of vapours may cause respiratory system burns.
<u>Skin contact:</u>	Cause severe skin burns.
<u>Eye contact:</u>	Cause severe damage to eyes.
<u>Ingestion:</u>	May burn the digestive tract..

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

Instructions for medical personnel: treat symptomatically. In case of ingestion or inhalation of a larger quantity of the mixture, immediately contact a doctor – toxicologist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

<u>Suitable extinguishing media:</u>	Alcohol-resistant foam, CO ₂ , powder, dissipated water jet, water mist.
<u>Unsuitable extinguishing media:</u>	Full water jet.

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide and other toxic gases may be formed in fire. Inhalation of harmful products of pyrolysis may cause serious health damage.

5.3. Advice for firefighters

Use a self-contained breathing apparatus (EN 137) a complete protective clothing. A self-contained breathing apparatus and chemical protective clothing only if personal (close) contact with the substance is likely. Prevent contaminated extinguishing media from entering the sewer system, surface and ground waters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Proceed according to directions given in Sections 7 and 8. Do not breathe aerosols. Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of soil, surface and ground waters.

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6.3. Methods and material for containment and cleaning up

In case of accidental release cover the sewer inlet. Stop the release. Cover the released product with a suitable (non-flammable) absorbent (sand, diatomaceous earth, soil, other suitable materials), collect in tightly-closed containers and dispose of in compliance with Section 13. If a large amount of the product is released, inform the fire brigade and other competent authorities. After removing the released product, wash the contaminated area with plenty of water. Do not use solvents.

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 safe handling:

Do not breathe aerosols. Avoid contact with skin and eyes. Do not take contaminated clothing away from the workplace. After handling the product, wash hands and contaminated body parts. Use personal protective equipment specified in Section 8. Observe applicable legal regulations on safety and health protection. Wash hands and face thoroughly with soap and water after finishing work. No eating, drinking and smoking at work.

Use in compliance with the requirements of Regulation (EU) No. 528/2012 concerning the making available on the market and use of biocidal products, and with the directions for use (including the premedical first aid specified).

Measures to protect the environment:

Perform suitable measures for collecting releases from containers, depending on the amount of product stored. Equip the storage space with collecting no-drain tanks. Collect damaged packaging mechanically and dispose of, if safe to do so. Prevent spills and releases to the sewerage, surface and ground waters and soil. If a release occurs, proceed according to Section 6.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly-closed containers in cool, dry, and well-ventilated places designated for this purpose.

Store locked up and out of reach of children. Store separately from foods, beverages, and feedstuffs.

Recommended storage temperature: 15 to 25 °C.

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 and PNEC values: not available yet

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

DNEL:

Workers: 3.96 mg/m³ – human exposure, inhalatory, long-term exposure, systemic effects

Workers: 5.7 mg/kg body weight/day – human exposure, dermal, long-term exposure, systemic effects

General population: 1.64 mg/m³ – human exposure, inhalatory, long-term exposure, systemic effects

General population: 3.4 mg/kg body weight/day – human exposure, dermal, long-term exposure, systemic effects

General population: 3.4 mg/kg body weight/day – human exposure, oral, long-term exposure, systemic effects

PNEC:

Freshwater: 0.001 mg/l

Marine water: 0.001 mg/l

Microorganisms in STP (sewage treatment plant toxicity): 0.4 mg/l

Sediment (freshwater): 12.27 mg/kg dry sediment weight

Sediment (marine water): 13.09 mg/kg dry sediment weight

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Soil (agricultural): 7 mg/kg dry soil weight

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide sufficient ventilation.

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 emergency shower and eye fountain (eyewash) at the workplace.

<i>Eye/face protection:</i>	Protective goggles (EN 166) or face shield (EN 149).
<i>Skin protection:</i>	<i>Hand protection:</i> Protective gloves resistant to caustics (EN 374-1). It is necessary to find out and observe exact times of penetration through the glove material. <i>Other skin protection:</i> Protective work clothing. Wash contaminated skin thoroughly.
<i>Respiratory protection:</i>	Use a suitable respirator in insufficiently ventilated places.
<i>Thermal hazards:</i>	None.

8.2.3. Environmental exposure controls

Prevent the product from entering the sewer system, soil, ground and surface waters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Blue
Odour	Bitter almond like
Melting point/freezing point	Data not available
Boiling point or initial boiling point and boiling range	102 °C
Flammability	Data not available
Lower and upper explosion limit	Data not available
Flash point	> 105 °C
Auto-ignition temperature	> 380 °C
Decomposition temperature	Data not available
pH	6–8 (undiluted)
Kinematic viscosity	Data not available
Solubility	Miscible in water
Partition coefficient n-octanol/water (log value)	0.5
Vapour pressure	Data not available
Density and/or relative density	0.99 g/cm ³ (at 20 °C)
Relative vapour density	Not specified
Particle characteristics	Not relevant

9.2. Other information

Dynamic viscosity	Approx. 100 mPa.s at 20 °C
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SECTION 10: Stability and reactivity

10.1. Reactivity

Non-flammable product.

10.2. Chemical stability

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Stable under normal ambient conditions at storage and handling. Decomposition does not occur.

10.3. Possibility of hazardous reactions

No hazardous reactions are known.

10.4. Conditions to avoid

Protect from flames, sparks, overheating, and frost.

10.5. Incompatible materials

Protect from strong acids, alkalis, and oxidising agents.

10.6. Hazardous decomposition products

None occurs if used as specified. Hazardous products, such as carbon monoxide and carbon dioxide, are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological data have not been determined experimentally for the mixture.

Data on the possible effect of the mixture are based on known effects of individual ingredients.

Acute toxicity

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

ATE mixture, oral = 3,333 mg/kg (calculated)

- LD ₅₀ , oral, rat (mg.kg ⁻¹):	397 (benzalkonium chloride)
- LD ₅₀ , dermal, rat (mg.kg ⁻¹):	3,412 (benzalkonium chloride)
- LC ₅₀ , inhalation, rat (mg.l ⁻¹):	Data not available

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Causes serious eye damage.

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.

11.2. Information on other hazards

Endocrine disrupting properties

No relevant data available.

SECTION 12: Ecological information

Toxicological data have not been determined experimentally for the mixture.

Data on the possible effect of the mixture are based on known effects of individual ingredients.

12.1. Toxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

- LC ₅₀ , 96 hrs., fish (mg.l ⁻¹):	0.515 sweet water environment (benzalkonium chloride) 1.28 marine environment (benzalkonium chloride)
- EC ₅₀ , 48 hrs., crustacea (mg.l ⁻¹):	0.016 <i>Daphnia magna</i> (benzalkonium chloride)

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- IC ₅₀ , 72 hrs., algae (mg.l ⁻¹):	Data not available
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12.2. Persistence and degradability

The mixture is biodegradable.

12.3. Bioaccumulative potential

No other relevant information available.

12.4. Mobility in soil

No other relevant information available.

12.5. Results of PBT and vPvB assessment

The mixture 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 the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommended disposal method for legal persons and natural persons authorised to conduct a business:

May not be disposed of together with municipal waste. Do not discharge into the sewerage. Place unused product and contaminated packaging into labelled waste collection containers and hand marked waste over for disposal to a specialised company authorised to do so.

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 03 05
Contaminated packaging:	15 01 10
Cleaned empty packaging:	subgroup 15 01 xx
Waste from cleaning:	15 02 02


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

14.1. UN number or ID number	UN 1760
14.2. UN proper shipping name	ADR/RID: CORROSIVE LIQUID, N.O.S. (benzalkonium chloride) IMDG, ICAO/IATA: CORROSIVE LIQUID, N.O.S. (benzalkonium chloride)
14.3. Transport hazard class(es)	8
14.4. Packing group	II
14.5. Environmental hazards	 Yes,

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14.6. Special precautions for user	References in sections 4 to 8
14.7. Maritime transport in bulk according to IMO instruments	Not known
Other information	 <p>Road transport – ADR Limited quantities 1 L</p> <p>Maritime transport – IMDG EMS (emergency plan) F-A, S-B Seawater contamination Yes</p>

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: point 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): Hazard category E1

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 Aug 2018 / 4.0 (Czech version)

Revision history:

Version	Date	Changes
1.0	27 March 2017	First issue according to Regulation (EC) of the European Parliament and of the Council No 1907/2006 and to Regulation (EU) of the Commission No 830/2015
2.0	24 Jan 2022	Change in composition, change in the mixture classification, changes in all sections of the SDS

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)

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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

- Calculation method

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

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P260 Do not breathe vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P405 Store locked up.

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

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currently valid legal regulations However, they may not be considered to be any guarantee of the product suitability and usability for particular applications.