

Safety Data Sheet

according to 1907/2006/EC, Article 31

printing date 12.02.2024

version number 9.0

revision: 12.02.2024

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

- **1.1 Product identifier**
 - **Trade name:** TGB SalonSafe™ Biocide
 - **Unique Formula Identifier (UFI):** F2AU-00CC-Q008-92QX
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
 - Hard surface disinfectant for non-professional use.
 - Hard surface disinfectant for professional use.
- **1.3 Details of the supplier of the safety data sheet:**
 - Daisy's Nail Company
 - Unit 1, G3 Business Park
 - Dolphin Road
 - Shoreham-By-Sea
 - BN43 6AN
 - England
- **1.4 Emergency telephone number:**
 - National Poisons Information Service (24 h service): 0844-892-0111 (UK only)
 - National Poisons Information Centre: 01 8092166 (Ireland only)
 - Transport Emergency phone number (24 h service): +49 621 60-43333

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - In accordance with Regulation (EC) No 1272/2008



Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
.....	
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
 - In accordance with Regulation (EC) No 1272/2008.
 - The product is labelled according to the regulation.
 - **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**
 - Causes skin irritation.

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- Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
Avoid release to the environment.
Wear protective clothing, protective gloves and eye protection.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
 - **Supplemental information in terms of art. 25 CLP-Regulation (EC) Nr. 1272/2008:** none
 - **Additional information:**
For professional users.
For non professional user.
 - **2.3 Other hazards**
 - **PBT-properties:** none
 - **vPvB-properties:** none
 - **Determination of endocrine-disrupting properties:** none

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· Dangerous components:		
CAS: 56539-66-3 EINECS: 260-252-4 Reg.nr.: 01-2119976333-33	3-Methoxy-3-methyl-1-butanol ☠ Eye Irrit. 2, H319	3 - 5%
CAS: 68424-85-1 EINECS: 270-325-2	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Alternative CAS number: 85409-22-9 ☠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ☠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) ☠ Acute Tox. 4, H302 ATE: ATE oral: 397 mg/kg	1 - 2.5%

- **Additional information:** Hazard statements see section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **Note:**
Obtain special instructions from the poison information centre: 0844-892-0111 (UK only)
Personal protection for the First Aider.
 - **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
 - **After skin contact**
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.

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- **After eye contact:**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
- **After swallowing:** Rinse mouth and drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Product is non combustible. Use fire fighting measures that suit the environment.
- **Unsuitable extinguishing agents for reasons of safety:** None
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, toxic incineration products may be released such as:
Carbon monoxide (CO)
Nitrogen oxides (NOx)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb leaked product with chemical binder, if available.
Suitable binder: binder for basic (alkaline) substances (alkaline solutions) (labelling: B)
Dispose of contaminated material as waste according to item 13.
Decontamination procedure: Quats are incompatible with anionic compounds, e. g. with anionic surfactants. If product is released unintentionally into waste water, drain the contaminated waste water and collect it in an appropriate container. Adjust with sodium lauryl sulphate solution (concentration twice as high as the active ingredient in the wastewater) to a mixture ratio of 1:1. Request further instructions from the supplier. Polluted surfaces can be decontaminated with a 10% sodium lauryl sulphate solution.
- **6.4 Reference to other sections** None

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Provide good room ventilation or local exhaust ventilation at the workplace.
Assess hazards arising from work equipment and work places.
- **Information about protection against explosion and fire:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and containers:**
Should be stored in the delivery-container preferably.
- **Information about storage in a common storage facility:** none
- **Further information about storage conditions:**
Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.
- **Sensitivity against frost:** Protect from frost.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** None established.
- **Additional information:** Information valid at the time of review of safety data sheet.
- **8.2 Exposure controls**
- **Technical protective equipment:**
In case of contamination devices to rinse eyes or skin immediately under running water must be available.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Avoid contact with the eyes and the skin.
Wash hands during work breaks and at the end of the shift.
Use skin cream for skin protection.
Provide skin protection plan.
- **Respiratory protection:** Not required
- **Hand protection**



Nitrile gloves with CE marking, if the risk assessment at the workplace indicates that this is appropriate.

- **Gloves made of the following materials are not suitable:**
Gloves for mechanical protection do not provide protection against chemicals.
- **Eye/face protection**



Safety glasses (EN 166)

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· Body protection:



Protective clothing (EN 14605:2009-08)

· Risk management measures

The operators shall be instructed adequately.

The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- **Physical state:** liquid
- **Colour:** colourless
- **Odour:** odourless
- **Melting point/freezing point:** Not determined, as not safety-relevant
- **Boiling point or initial boiling point and boiling range** ca. 100 °C
- **Flammability** Product is not inflammable.
- **Lower and upper explosion limit** Not applicable, as aqueous mixture
- **Flash point:** The mixture has no flashpoint.
- **Ignition temperature:** Not applicable, as aqueous mixture
- **Decomposition temperature:** Not determined, as not relevant to safety
- **pH at 20 °C** 10.25 - 10.75
alkaline
- **Viscosity:**
- **kinematic (√):** Not determined, as not relevant to safety
- **Solubility**
- **Water:** Fully miscible
- **Partition coefficient n-octanol/water (log value)** see section 12
- **Vapour pressure at 20 °C:** 23 hPa (7732-18-5 water)
- **Density and/or relative density**
- **Density at 20 °C:** 1.03 - 1.05 g/cm³
- **Relative gas density** Not applicable, as aqueous mixture
- **Particle characteristics** Not applicable as the product is liquid.
- **9.2 Other information**
- **Explosive properties:** none
- **Oxidising properties** none

SECTION 10: Stability and reactivity

· 10.1 Reactivity

The evaluation of the relevant available information does not show an indication of any metal corrosive property.

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- **10.2 Chemical stability**
- **Conditions to be avoided:**
Before handling, the product should not be diluted or mixed with other chemicals, in order to avoid any negative influences on the ingredient(s).
- **Minimum shelf life:** 24 months from production date.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
None, if storage and handling is done according to specification.

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.

· **Acute toxicity estimates (ATE) or LD₅₀/LC₅₀ values:**

oral	ATE	> 5,000 mg/kg (calculated)
dermal	ATE	> 5,000 mg/kg (calculated)

- **Skin corrosion/irritation:** Causes skin irritation.
- **Serious eye damage/irritation:** Causes serious eye irritation.
- **Sensitisation:** Based on available data, the classification criteria are not met.

· **Results of studies:**

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

OECD 406	(Guinea pig) not sensitising - S 480
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- **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** none
- **Endocrine disrupting properties**
Data on endocrine disrupting properties for human health are not available.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

EC ₁₀ / 72 h	0.0025 mg/l (Selenastrum capricornutum) (OECD 201) S 470
EC ₅₀ / 72 h	0.02 mg/l (Selenastrum capricornutum) (OECD 201) S 470
EC ₅₀ / 48 h	0.016 mg/l (Daphnia) Dossier (REACH)
LC ₅₀ / 96 h (static)	0.85 mg/l (rainbow trout) (OECD 203) S 469
NOEC / 21 d	0.025 mg/l (Daphnia) (OECD 211) S 575
NOEC / 28 d	0.0322 mg/l (fathead minnow) (U.S. EPA FIFRA 72-4) Dossier (REACH)

Evaluation:

Based on the available data the classification criteria for hazard classes aquatic acute (short term) toxicity are not fulfilled.

Harmful to aquatic life with long lasting effects.

Effect on activated sludge organisms:

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

EC ₂₀ / 0.5 h	5 mg/l (Activated Sludge) (OECD 209)
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Evaluation: Depending on concentration, toxic effects on activated sludge organisms are possible.

12.2 Persistence and degradability

Rapid degradability of organic substances:

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

OECD 301 D Closed-Bottle-Test	>60 % (Activated Sludge)
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Evaluation:

The component(s) is (are) rapidly degradable.

Substances are considered rapidly degradable in the environment if one of the following criteria holds true: if, in 28-day ready biodegradation studies, at least the following levels of degradation are achieved within 10 days of the start of degradation: 70% dissolved organic carbon or 60% oxygen depletion or carbon dioxide generation; (see GB CLP-Regulation Annex I section 4.1.2.9 and GB CLP Guidance version 4.1 Annex II.2).

Behaviour in sewage treatment plants:

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

OECD 303 A: Activated Sludge Units	>90 % (Activated Sludge) (HPLC)
EC ₁₀ / 0,5 h	4 mg/l (Activated Sludge)

Evaluation: The component(s) is (are) biodegradable in activated sludge units.

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· 12.3 Bioaccumulative potential

· Bioconcentration factor (BCF) / octanol/water partition coefficient (LogKow):	
68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	
OECD 305 Bioconcentration factor	79 (fish) Dossier (REACH)
OECD 107 LogKow (Shake Flask Method)	2.47 (n-octanol/water) S 5530

- **Evaluation:** Not worth-mentioning accumulating in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **Persistent, bioaccumulative and toxic substances (PBT):** none
- **Very persistent and very bioaccumulative substances (vPvB):** none
- **12.6 Endocrine disrupting properties**
Data on endocrine disrupting properties on the environment are not available.
- **12.7 Other adverse effects** none
- **Metals and their compounds (Directive 2006/11/EC):** None
- **European Water Framework Directive (2000/60/EC):**
The product does not contain any priority substances according WFD that require a water monitoring.
- **Absorbable organic halogen compounds (AOX - DIN EN ISO 9562 H 14):**
The product does not contain organically bounded halogens (AOX-free).
Care should be paid to properly washing out the chloride when performing the AOX method.

* **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Dispose of hazardous waste separately in compliance with legal regulations.
- **Contaminated packaging:**
- **Recommendation:**
The legal regulations must be observed during disposal. Dispose of empty packaging in a recycling system.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** None
- **14.2 UN proper shipping name**
- **ADR, IMDG, IATA** None
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- **Class** None

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- **14.4 Packing group**
- **ADR, IMDG, IATA** None
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:** No dangerous goods.
- **UN "Model Regulation":** None

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Volatile organic carbons (VOC):**

· **Directive 2010/75/EU:** 0.00 %

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This data is based on our current knowledge. However, it does not constitute a guarantee for any specific product feature nor does it establish a legally valid contractual relationship.

· **Relevant hazard statements:**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Methods of evaluating information used for the purpose of classification:**

The classification includes the relevant available information about the mixture or the substances contained therein.

The evaluation of the available information within the scope of classification refers to the forms and aggregate states in which the mixture has been placed on the market and will be used most likely.

Skin corrosion/irritation

Serious eye damage/irritation

Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

Calculation method

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- **Date of previous version:** 07.02.2023
- **Abbreviations and acronyms:**
 - ATE: Acute Toxicity Estimate
 - EN ISO: Iso norm adopted as a European standard
 - DIN EN: European norm adopted as a German standard
 - OECD: Organisation for Economic Co-operation and Development
 - ECxx: Effect concentration, xx percent
 - NOEC: No Observed Effect Concentration
 - UN: United Nations
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - GB CLP: Classification, Labelling and Packaging
 - UK REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 - Acute Tox. 4: Acute toxicity – Category 4
 - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2
 - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **Key literature references and sources for data:** Own studies (reference to S-number).
- *** Data altered since the previous version.**

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