



Safety Data Sheet

according to 1907/2006/EC, Article 31

www.benzsoftwash.com

Trade name: Bio Cleanze (2% dilution 50:1)

Revision: 2. Date: February 2024

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

1.1 Product identifier

- Trade name: **Bio Cleanze (2% dilution 50:1)**

- PRCD Number: 98070

- HSE Approval number: 9936

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

- Application of the substance / the mixture: Biocidal product for the treatment of exterior hard surfaces.

1.3 Details of the supplier of the safety data sheet

- Address and telephone number of the supplier:

BENZ Softwash Ltd

Trabolgan Road

Whitegate

Midleton

Cork, Ireland.

Phone: (IRE) +353 (0) 21 46 22 978

Email: support@benzsoftwash.com

- Competent person responsible for the Safety Data Sheet:

Technical director: support@benzsoftwash.com

1.4 EMERGENCY PHONE NUMBERS

National Poisons Information Service UK: **Phone: +44 (0) 844-892-0111**

Poisons Information Service of Ireland: **Phone: 01 809 2166**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Physical and chemical: Not classified

Environment: Not classified

Human health: Eye Irrit. 2a - H319

2.2 Label elements

- Labeling according to Regulation (EC) No 1272/2008

The product is labeled according to the CLP regulation.

- Hazard pictograms



GHS07

- Signal word: Warning

- Hazard-determining components of labelling: Didecyldimethylammonium chloride.

- Hazard statements: H319 Causes serious eye irritation

- Precautionary statements:

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3 Other hazards: Other hazards have not been identified for this product.

SECTION 3: Composition/information on ingredients

3.1 Type of product: Microbiozide based on twin chain quaternary ammonium compound.

3.2 mixtures

- Dangerous components:		
CAS: 7173-51-5	didecyldimethylammonium chloride	0-1%
EINECS: 230-525-2		
Index number: 612-131-00-6	Causes serious eye irritation H319	

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information

Obtain special instructions from the poison information centre: Phone: +44 (0) 844-892-0111 (UK) or 00353 (01) 8092566 (Ireland) see as well section 1.4.

- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.

- **After skin contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

- **After eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists. Get medical attention if symptoms occur.

- **After swallowing:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

- **Information for doctor:** Probable mucosal damage may contraindicate the use of gastric lavage.

- **Danger:** Danger of gastric perforation.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with activated carbon.

Rinse eyes thoroughly with physiological saline.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing agents** Not flammable. Use fire-extinguishing media appropriate for surrounding materials
- **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:

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

Carbon monoxide (CO)

5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product.

Wear protective clothing (see item 8).

Keep unprotected persons away until dry.

When selecting the protective suit attention has to be paid to the complete and safe protection of skin and mucous membranes. Impermeable protective clothes, protective boots made of neoprene, complete face protection and nitrile-rubber-gloves with long tops should be worn.

6.2 Environmental precautions:

Avoid release to the aquatic environment, may be harmful to fish. It must be prevented from reaching surface water.

Prevent from spreading (e. g. by enclosing with a ring of chemical absorbent).

Inform authorities in case of contamination of water or sewage system.

6.3 Methods and material for containment and cleaning up:

Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.

Suitable binder: multi-purpose absorbent.

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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Ensure good exhaust ventilation at the workplace.

Load carefully, avoid splashes.

Wear PPE.

Risks to the safety and health of workers may not only be created by work involving chemicals but, inter alia by work equipment and the fitting-out of work-places. Those risks shall be identified and evaluated.

- **Information about protection against explosion and fire:** NA

7.2 Conditions for safe storage, including any incompatibilities

- **Storage:** Keep away from food, drink and animal feeding stuffs. Store in tightly closed original container in a dry, cool and well ventilated place. Keep away from oxidizing agents and strong acids. Keep away from children.

- **Requirements to be met by storerooms and containers:**

Store only in the original container.

Information about suitable materials for vessels and piping can be requested from our technical department

Tel.: +353(021) 46 22 978 or email support@benzsoftwash.com.

- **Information about storage in a common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:** Store in a well-ventilated place. Keep cool. Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.

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:
Non applicable

- **Additional information:** Information valid at the time of review of safety data sheet.

8.2 Exposure controls

- **Personal protective equipment**

- **General protective and hygienic measures:**

Use skin cream for skin protection.

Avoid contact with the eyes and the skin.

Do not inhale gases/fumes/aerosols.

Wash hands during work breaks and at the end of the shift.

Provide skin protection plan.

- **Respiratory protection:** Filter A/P2. (DIN/EN 141)

- **Protection of hands:**



Chemical protective gloves according to DIN EN 374 with CE-labelling.

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Check the condition of protective gloves after each use for any damages like holes, cuts or tears.

Do not wear protective gloves longer than necessary.

After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves:** Nitrile rubber, NBR

- **Penetration time of glove material:** Thickness: 0.4 mm; break-through time: 480 min; material: Nitrile; permeation: level 6

- **Gloves made of the following materials are not suitable:**

Gloves for mechanical protection do not provide protection against chemicals.

- **Eye protection:**

Face shield (visor)



A device for rinsing eyes must be available at the work place.

Use visor in combination with goggle.

- **Body protection:**

Protective clothing.

Full head, face and neck protection.

- **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**

- **General Information**

- **Appearance:**

Form: Liquid

Colour: Clear, colourless to slightly yellowish

Odour: slight alcohol

Odour threshold: Not determined

pH-value: 6-8

Change in condition

Melting point/Melting range: - 31 °C

Boiling point/Boiling range: 99 °C

Flash point: NA

Ignition temperature: NA

Self-inflammability: Product is not self-igniting.

Danger of explosion: **Under normal conditions of storage and use, hazardous reactions will not occur**

Critical values for explosion:

Lower: NA



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Upper:	NA
Vapour pressure at 20 °C:	48 hPa (IPA)
Density at 20 °C	0.895-0.915 g/cm ³
Solubility in / Miscibility with	
Water:	Fully miscible
Organic solvents:	NA
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Corrosive action on metals possible.

- 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 toxicological effects

- Acute toxicity

No information available

Acute Toxicity (Oral LD₅₀): No information available.

Acute Toxicity (Dermal LD₅₀): No information available.

Acute Toxicity (Inhalation LD₅₀): No information.

- Serious eye damage/irritation: Causes serious eye damage.

- Sensitisation: Non sensitising.

- 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.

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No ecological information on the finished product. The product contains substance which is very toxic to aquatic life.

- **Toxicity on activated sludge organisms:**

- **12.2 Persistence and degradability**

- **Degree of elimination:**

- **Biodegradability: 7173-51-5 didecyldimethylammonium chloride**

OECD 301 D Closed-Bottle-Test

> 70 % (Activated Sludge) (OECD 301 D)
S 598

- **Evaluation:** The component(s) is (are) rapidly biodegradable.

- **Evaluation:** The substances are biodegradable/eliminable in activated sludge units.

12.3 Bio accumulative potential

BCF / LogKow: 7173-51-5 didecyldimethylammonium chloride

OECD 117 Log Kow (HPLC method)

(n-Octanol/water) (OECD 117) not determinable

OECD 305 Biokonzentrationsfaktor BCF

81 BCF (Fish) (OECD 305) literature

- **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

- **PBT:** This mixture does not contain substances that meet the PBT-criteria of REACH, annex XIII.

- **vPvB:** This mixture does not contain substances that meet the vPvB-criteria of REACH, annex XIII.

12.6 Other adverse effects Any other adverse effects on the environment are not expected.

12.7 Additional information

- **Metals and their compounds according Directive 2006/11/EC:** None

- **European Water Framework Directive 2000/60/EC (WFD) dated 23.10.2000:**

The product does not contain any priority substances according WFD that require a water monitoring.

- **Absorbable organic halogen compounds (AOX - DIN EN ISO 9562):**

The product does not contain substances, which can influence the AOX of waste water.

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**

When handling waste, consideration should be made to the safety precautions applying to handling of this product.

- **European waste catalogue**



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- **Contaminated packaging**
- **Recommendation:** Packaging can be reused or recycled after cleaning.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

14.1 UN-Number

- **ADR, IMDG, IATA:** Not applicable

- 14.2 UN proper shipping name

- **ADR:** Not applicable
- **IMDG:** Not applicable
- **IATA:** Not applicable

14.3 Transport hazard class(es)

- **ADR:** Not applicable
- **Class:** Not applicable
- **Label:** Not applicable

14.4 Packing group

- **ADR, IMDG, IATA :** Not applicable

- 14.5 Environmental hazards:

- **Marine pollutant:** No
- **Special marking (ADR):** Not applicable
- **14.6 Special precautions for user**
- **Kemler Number:** Not applicable
- **EMS Number:** Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- **Transport/Additional information:** Not applicable.

SECTION 15: Regulatory information

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

- **National regulations:**

- **Information about limitation of use:**

Take note of Directive 94/33/EC on the protection of young people at work.

Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

- **Regulations which may apply in event of accident: Control of Major Accident Hazards (COMAH)**

Critical quantity values according to the regulations on accidents (Seveso Directive) should be adhered to.

- **Indication of VOC:**

- **VOC according to Directive 1999/13/EC:** Not applicable

- **VOC according to Decopaint Directive (2004/42/EC):** Not applicable



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- SVOC according to EU-Ecolabel for interior and exterior paints (2014/312/EU):

This product does not contain any Semi Volatile Organic Compounds in the definition of the 2014/312/EU.

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 features and does not establish a legally valid contractual relationship.

- Relevant phrases

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

- Training hints

Further information regarding the directions for use can be found in the Product Data Sheet.

- Classification according to Regulation (EC) No 1272/2008

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.

- Contact for technical information: support@benzsoftwash.com

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

Met. Corr. 1: Corrosive to metals, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

- Key literature references and sources for data:



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Data source(s): Biocidal product dossier(s)

Own studies (reference to S-number).