

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

1. Product identifier

Trade name: **Perma Cleanze Maintenance Spray**

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 Material Safety Data Sheet:

Technical director: support@benzsoftwash.com

1.4 Emergency telephone number:

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

Poisons Information Service or 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



GHS05

Skin irrit. 2
Eye Dam. 1

H315 Causes skin irritation
H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is labelled according to the CLP regulation.

Hazard pictograms



GHS05



GHS09

Signal word: Danger

Hazard-determining components of labelling: Didecyldimethylammonium chloride

Hazard statements:

H318 Causes serious eye damage

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

H400 Very Toxic to aquatic life.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use

Precautionary statements:

P264 Wash hands thoroughly after handling

P273 Avoid release to the environment.

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

P302+P352 IF ON SKIN (or hair): Wash with plenty of water

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents in accordance with local, state or national legislation.

P310 Immediately call a POISON CENTER/doctor.

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

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Description: Microbiozide based on twin chain quaternary ammonium compound.

| Dangerous components: | | |
|--|---|--------|
| CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6 | Didecyldimethylammonium chloride ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302 | 1 - 5% |
| CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25 | propan-2-ol ⚠ Flam. Liq. 2, H2253, | 1 - 2% |

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) 8092166 (Ireland) see as well section 1.4.

Information for the First Aider:

After inhalation: Supply fresh air; consult doctor in case of symptoms. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

After skin contact: IF ON SKIN (or hair): 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. Call a doctor immediately.

After swallowing: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

 Causes burns.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Water spray jet, extinguishing powder, CO₂, foam.

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)



Trade name: **Perma Cleanze Maintenance Spray**

Revision : 7.02.2018

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.

6.2 Environmental precautions: As the product is hazardous for the aquatic environment, 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Wash hands thoroughly after handling. Wear protective clothing/eye protection and face protection.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store at around 20 degrees.

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 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. If the product crystallizes at low temperatures, it can be restored by slowly warming the product. The effectiveness is not affected hereby. 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: | |
|---|--|
| 67-63-0 propan-2-ol (10 – 25%) | |
| WEL (Great Britain) | Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm |

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: Not normally required - Filter A/P2. (DIN/EN 141)

Protection of hands:



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

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:



Wear eye protection with side protection (EN166)

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: | alcoholic |
| Odour threshold: | Not determined |
| pH-value: | 6-8 |

Change in condition

| | |
|----------------------------------|---|
| Melting point/Melting range: | - 31 °C |
| Boiling point/Boiling range: | 97 °C |
| Flash point: | Not Known |
| Ignition temperature: | · Self-inflammability: Product is not self-igniting. |
| Danger of explosion: | N/A |
| Critical values for explosion: | Not Known |
| Lower: | Not Known |
| Upper: | Not Known |
| Vapour pressure at 20 °C: | 48 hPa (IPA) |
| Density at 20 °C | 0.920-0.950 g/cm ³ |
| Solubility in / Miscibility with | |
| Water: | Fully miscible |
| Organic solvents: | 2-5 % |
| 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

10.1 Reactivity: None anticipated

10.2 Chemical stability: Stable under normal conditions

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: | Ingestion – Not Classified Calculated acute toxicity estimate (ATE) Calc ATE – 10204.08000 |
| Acute toxicity – Skin contact: | Not classified Calculated acute toxicity estimate (ATE) Calc ATE – 22448.98000 |
| Acute toxicity – Inhalation: | Not classified |
| Skin corrosion/irritation: | Causes skin irritation |
| Serious eye damage/irritation: | Causes serious eye damage |
| Sensitisation: | Non sensitising. |

Results of studies

7173-51-5 didecyldimethylammonium chloride

Dermal: OECD 404 (skin) corrosive (rabbit) (OECD 404)

Results of studies:

7173-51-5 didecyldimethylammonium chloride

| | | |
|---------------|--------------------|--|
| Sensitisation | OECD 406 (Buehler) | not sensitising (Guinea pig) (OECD 406) S 464 |
|---------------|--------------------|--|

| | |
|--------------------------------|---|
| 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: | May cause drowsiness or dizziness. |
| 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. |

SECTION 12: Ecological information

12.1 Toxicity

| | |
|--|---------------------------------------|
| Aquatic toxicity: | |
| EC50 / | 0.06 mg/l (Daphnia) |
| 48h: | 0.12 mg/l (Selenastrum capricornutum) |
| EC50 / | 0.97 mg/l (Brachydanio rerio) |
| 96h: | |
| LC50 / 96h: | |
| 7 173-51-5 Didecyldimethylammonium chloride | |
| | |

Evaluation: Toxic to aquatic life.

Toxicity on activated sludge organisms:

7173-51-5 Didecyldimethylammonium chloride: EC0 2 mg/l (Activated Sludge)

Evaluation: Depending on concentration, toxic effects on activated sludge organisms are possible.

12.2 Persistence and degradability



Trade name: **Perma Cleanze Maintenance Spray**

Revision : 7.02.2018

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.

2.3 Bioaccumulative 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:N 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

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator.

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: UN2920

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR



Class 9

Label 9

IMDG



Class: 9

Label: 9

IATA



Class 9

Label: 9

14.4 Packing group

ADR, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: Yes
Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user

None Known

Kemler Number: 83

EMS Number: F-E,S

14.7 Transport in bulk according to Annex II

of Marpol and the IBC Code Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L

IMDG

Limited quantities (LQ) 5L

IATA

Remarks: Packing Instructions / max. net weight: Passenger aircraft: 851 / 5 L; Cargo aircraft: 855 / 30 L
UN "Model Regulation": UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 8 (3), II, ENVIRONMENTALLYHAZARDOUS

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.

PCS (IRL): 99558

HSE: (UK): 10585

Indication of VOC:

VOC according to Directive 1999/13/EC: VOC-value: 20 % (calculated)

VOC according to Decopaint Directive (2004/42/EC): Max. VOC-content: 181 g/L.

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

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

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: Biocides: 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



Safety Data Sheet
according to 1907/2006/EC, Article 31

Trade name: **Perma Cleanze Maintenance Spray**

Revision : 7.02.2018

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

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 - AcuteHazard, Category 1

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

· **Key literature references and sources for data:**

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

Own studies (reference to S-number).

· * **Data altered since the previous version.**