

# 1. Identification of Substance & Company

**Product** 

Product name Aquacide QLF Microbiocide

HSNO approval HSR002526

Approval description Cleaning Products (Corrosive) Group Standard 2020

UN number 1760 DG class 8

Proper Shipping Name CORROSIVE LIQUID, N.O.S. (contains Quaternary ammonium

compounds, di-C8-10-alkyldimethyl, chlorides

Packaging group III Hazchem code 2X

**Uses** Deodoriser/disinfectant

Company Details

Company GreenEarth Solutions Ltd

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Botany

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# **Emergency Telephone Number: 09 272 4141**

## 2. Hazard Identification

#### **Approva**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002526, Cleaning Products (Corrosive) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

# **GHS 7 Classes**

#### **Hazard Statements**

Acute toxicity cat 4 (oral) H302 - Harmful if swallowed.

Skin corr cat 1C H314 - Causes severe skin burns and eye damage.

Eye dam cat 1 H318 - Causes serious eye damage.

Aquatic chronic cat 1 H410 - Very toxic to aquatic life with long lasting effects.

SYMBOLS

# **DANGER**





ISNO Classes	Hazard Statements
15110 6145565	nazaru Su

6.1D (oral) H302 - Harmful if swallowed.

8.2C H314 - Causes severe skin burns and eye damage.

8.3A H318 - Causes serious eye damage.

9.1A H410 - Very toxic to aquatic life with long lasting effects.

### Precautionary Statements

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

P102 - Keep out of reach of children.

P103 - Read label before use.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray\*.

P264 - Wash hands thoroughly after handling.

P273 - Avoid release to the environment.

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

P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330 - Rinse mouth.



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

P363 - Wash contaminated clothing before reuse.

P310 - Immediately call a POISON CENTRE or doctor/physician.

P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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

to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE or doctor/physician.

P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

## 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	20%
non hazardous ingredients	proprietary	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

#### 4. First Aid

#### General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

facilities

Ready access to running water is required. Accessible eyewash is required.

#### Exposure

Swallowed IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTRE or

doctor/physician if you feel unwell.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or

doctor/physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower. Wash contaminated clothing before reuse. Immediately call a

POISON CENTRE or doctor/physician.

Inhaled Generally, inhalation of vapours/spray is unlikely to result in adverse health effects. If

coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

#### Advice to Doctor

Treat symptomatically

### 5. Firefighting Measures

Fire and explosion hazards:

Suitable extinguishing

There are no specific risks for fire/explosion for this chemical. It is non-flammable.

Carbon dioxide, extinguishing powder, foam.

substances: Unsuitable extinguishing

substances:

Unknown.

Products of combustion:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breat

Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection. 2X

Hazchem code: 2

#### 6. Accidental Release Measures

Containment If greater than 100L is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

storm water.

**Emergency procedures** In the event of spillage alert the fire brigade to location and give brief description of

hazard. Stop the source of the leak, if safe to do so. Wear protective equipment to

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prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your

regional council immediately).

Clean-up method Collect and seal in properly labelled containers or drums for disposal. If contamination of

crops, sewers or waterways has occurred advise local emergency services.

Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

Wear protective equipment to prevent skin and eye contamination and the inhalation of

vapours. Work up wind or increase ventilation.

## 7. Storage & Handling

**Precautions** 

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in

Section 10.

**Handling** Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Avoid skin and eye

contact and inhalation of vapour, mist or aerosols.

# 8. Exposure Controls / Personal Protective Equipment

#### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA\* WES-STEL

Exposure Stds No ingredients listed

#### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

### Personal Protective Equipment

Eyes



Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses. Select eye protection in accordance with AS/NZS 1337.

Skin



Avoid any skin contact. Wear overalls, rubber boots and impervious gloves. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or emoking.

Respiratory

A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with an organic vapour cartridge and a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

### WES Additional Information

Not applicable

#### 9. Physical & Chemical Properties

Appearance clear liquid

Odour mild eucalyptus odour pH no data
Vapour pressure no data

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Viscosity no data
Boiling point ~100°C
Volatile materials no data
Freezing / melting point no data

Solubility soluble in water
Specific gravity / density ~1.04g/cm³
Flash point not applicable
Danger of explosion not explosive
Auto-ignition temperature no data
Upper & lower flammable limits soluble in water
~1.04g/cm³
not applicable
not explosive
no data

Corrosiveness corrosive to eyes and skin

# 10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames.

Incompatible groups Oxidizing agents, e.g. bleach

Substance Specific none known

Incompatibility

Hazardous decomposition

Fire may cause evolution of: Hydrogen chloride gas, nitrogen oxides.

products

Hazardous reactions none known

# 11. Toxicological Information

#### Summary

IF SWALLOWED: may cause irritation to mouth and throat. May cause stomach pains, nausea, vomiting and diarrhoea.

IF IN EYES: undiluted substance may cause eye damage.

IF ON SKIN: undiluted substance may cause burns.

IF INHALED: no effects are anticipated, due to the low vapour pressure. Dusts may irritate respiratory system.

#### Supporting Data

**Acute** Oral Using LD<sub>50</sub>'s for ingredients, the calculated LD<sub>50</sub> (oral, rat) for the mixture is between

2000 and 5,000 mg/kg. Data considered includes: Quaternary ammonium compounds,

di-C8-10-alkyldimethyl, chlorides 238mg/kg (rat).

**Dermal** Using LD<sub>50</sub>'s for ingredients, the calculated LD<sub>50</sub> (dermal, rat) for the mixture is >5000

mg/kg. Data considered includes: Quaternary ammonium compounds, di-C8-10-

alkyldimethyl, chlorides 3342mg/kg.

**Inhaled** No evidence of inhalation toxicity.

Eye The mixture is considered to be corrosive to the eye. Quaternary ammonium compounds,

di-C8-10-alkyldimethyl, chlorides is classed as an eye corrosive.

Skin The mixture is considered to be corrosive to the skin. Quaternary ammonium

compounds, di-C8-10-alkyldimethyl, chlorides is classed as a skin corrosive. No ingredient present at concentrations > 0.1% is considered a sensitizer. No ingredient present at concentrations > 0.1% is considered a mutagen.

MutagenicityNo ingredient present at concentrations > 0.1% is considered a mutagen.CarcinogenicityNo ingredient present at concentrations > 0.1% is considered a carcinogen.Reproductive /No ingredient present at concentrations > 0.1% is considered a reproductive or

**Developmental** developmental toxicant or have any effects on or via lactation.

Systemic No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known.

existing conditions

Sensitisation

# 12. Ecological Data

#### Summary

Chronic

This mixture is considered very toxic towards aquatic organisms.

#### Supporting Data

**Aquatic** Using EC<sub>50</sub>'s for ingredients, the calculated EC<sub>50</sub> for the mixture is < 1 mg/L. Data

considered includes: Quaternary ammonium compounds, di-C8-10-alkyldimethyl,

chlorides EC<sub>50</sub> (48 h, aquatic invertebrates)  $66 \mu g/L$ , LC<sub>50</sub> (4 days, aquatic invertebrates)

73 - 110 μg/L, EC<sub>50</sub> (4 days, algae) 25 μg/L, EC<sub>50</sub> (72 h, algae) 22 - 35 μg/L.

Bioaccumulation No data

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Degradability No data
Terrestrial ecotoxicity No evidence
Biocidal Microbiocide

**Environmental effect levels**No EELs are available for this mixture or ingredients

# 13. Disposal Considerations

**Restrictions** There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

**Disposal method**Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore

rendered non-hazardous before discharge to the environment.

**Contaminated packaging** Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

### 14. Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for

transport. 1760

**Proper shipping name:** CORROSIVE LIQUID, N.O.S. (contains

Quaternary ammonium compounds, di-C8-

10-alkyldimethyl, chlorides

Class(es) 8
Precautions: CORROSIVE LIQUID

MARINE POLLUTANT

Packing group: III
Hazchem code: 2X

# 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002526, Cleaning Products (Corrosive) Group Standard 2017. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

# Specific Controls

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances

that have been decanted, transferred or manufactured for own use or have been

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 100L is stored.

Certified handler/Tracking Not required.

Bunding & secondary containment Required if > 100L is stored. Signage Required if > 100L is stored.

Location compliance certificate Not required. Flammable zone Not required. Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

### 16. Other Information

**Abbreviations** 

Approval Code

Approval HSR002526, Cleaning Products (Corrosive) Group Standard 2017 Controls,

EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

ECotoxic Concentration 50% – concentration in water which is fatal to 50% of a test

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Product Name: Aquacide QLF Microbiocide

population (e.g. daphnia, fish species)

**EPA** Environmental Protection Authority (New Zealand)

**GHS** Globally Harmonised System of Classification and Labelling of Chemicals, 7<sup>th</sup> revised

edition, 2017, published by the United Nations.

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

**LEL** Lower Explosive Limit

**LD**<sub>50</sub> Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

NZIoC New Zealand Inventory of Chemicals

MSDS (SDS)

Material Safety Data Sheet (or Safety Data Sheet)

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

**STOT RE**System Target Organ Toxicity – Repeated Exposure
STOT SE
System Target Organ Toxicity – Single Exposure

Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UEL Upper Explosive Limit
UN Number United Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Data

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site – www.worksafe.govt.nz.

Other References: EU ECHA, ingredients SDS's, ChemIDplus

Review

DateReason for reviewJune 2021Not applicable – new SDS

#### Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO and GHS classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

