



Company details

Vuzumart (Pty) Ltd
2012/047322/07
P.O. Box 66, Lanseria, 1748
011 300 9919

Material Data Safety Sheet

Poison Centre: 0860 155 5777

Version 5.0
Revision Date 24.05.2018
Print Date 06.11.2018

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

1.1 Product identifier

Identifier name : DQ80
Substance name : DaIGQ 2280

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

Use of the Substance/Mixture : Cleaning/washing agents and disinfectants

1.3 Details of the distributor

Company: Vuzumart (Pty) Ltd
Telephone: 011 300 9917

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Flammable liquids; Category 3	H226	Flammable liquid and vapour.
Acute toxicity; Category 3 ; Oral	H301	Toxic if swallowed.
Skin corrosion; Category 1B	H314	Causes severe skin burns and eye damage.
Acute aquatic toxicity; Category 1	H400	Very toxic to aquatic life.

Chronic aquatic toxicity; Category 1

H410 Very toxic to aquatic life with long lasting effects.

67/548/EEC / 1999/45/EC

Flammable.

Harmful if swallowed.

Causes burns.

Very toxic to aquatic organisms.

2.2 Label elements

Labelling according to EC Directives

REGULATION (EC) No 1272/2008

Pictogram

:



Signal word

: Danger

Hazard statements

H226 : Flammable liquid and vapour.

H301 : Toxic if swallowed.

H314 : Causes severe skin burns and eye damage.

H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P273 : Avoid release to the environment.

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

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 CENTER or doctor/ physician.

67/548/EEC / 1999/45/EC

Symbol(s)

:

: Corrosive Dangerous for the environment

R-phrases(s)

- R10 : Flammable.
R22 : Harmful if swallowed.
R34 : Causes burns.
R50 : Very toxic to aquatic organisms.

S-phrases(s)

- S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 : After contact with skin, wash immediately with plenty of soap and water.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61 : Avoid release to the environment. Refer to special instructions/ Safety data sheets.

2.3 Other hazards

General advice : No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substances / Mixtures : Mixture

Hazardous components

Didecyldimethylammonium chloride

CAS-No.	EC-No. / Registration number	Classification	Concentration
7173-51-5	230-525-2	Acute Tox.; 3; H301 Skin Corr.; 1B; H314 Aquatic Acute; 1; H400 Aquatic Chronic; 1; H410 C, N; R22, R34, R50	ca. 80 %

Ethanol

64-17-5	200-578-6 /		ca. 10 %
	01-2119457610-43-XXX	Flam. Liq.; 2; H225 Eye Irrit.; 2; H319	
	X	F, Xi; R11, R36	

For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the R- phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	: Move to fresh air. Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.
Skin contact	: After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately. Take off all contaminated clothing immediately.
Eye contact	: Immediately flush eye(s) with plenty of water. Call a physician immediately.
Ingestion	: Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: No information available.
----------	-----------------------------

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: No information available.
-----------	-----------------------------

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Dry powder, Water spray, Foam
------------------------------	---------------------------------

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Heating or fire can release toxic gas.
--------------------------------------	--

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Further information : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use respirator when performing operations involving potential exposure to vapour of the product.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Additional advice : For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire : Flammable. Keep away from sources of ignition and explosion and smoking. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas: Keep container tightly closed. To maintain product quality, do not store containers in heat and or direct sunlight. Keep in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
------------	---------	-------------------------------	--------------------	-------

Ethanol	64-17-5	TWA	500 ppm 960 mg/m ³	SMAK
		STEL	1 000 ppm 1 920 mg/m ³	SMAK
		MAK	500 ppm 960 mg/m ³	DFG MAK
		STEL	1 000 ppm	ACGIH
		REL	1 000 ppm 1 900 mg/m ³	NIOSH/GUID E

8.2 Exposure controls

Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Respirator with a vapour filter (EN 141) Respirator with ABEK filter.
- Hand protection : Suitable material : Nitrile rubber
Break through time : > 480 min
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Eye protection : Tightly fitting safety goggles
Face-shield
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Rubber or plastic apron
Rubber or plastic boots
- Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : light yellow
- Odour : alcohol-like
- pH : 6,5 - 9 (100 g/l ; 25 °C)
-

Melting point/range	: 10 °C
Boiling point/boiling range	: no data available
Flash point	: closed cup : 41 °C Method: Setaflash Closed Tester (ASTM D3278) Does not sustain combustion according to ASTM 4206
Density	: 0,89 g/cm ³ (25 °C)
Water solubility	: completely soluble
Viscosity, dynamic	: < 100 mPa.s (25 °C)

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Stable under normal conditions.

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Reducing agents, Strong oxidizing agents

10.6 Hazardous decomposition products

Carbon oxides, hydrochloric acid, Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin irritation : Corrosive

The following toxicological data refer to:

Didecyldimethylammonium chloride (CAS-No.: 7173-51-5)

Information on toxicological effects

Acute oral toxicity (LD50) : 238 mg/kg

Acute dermal toxicity (LD50) : 3 342 mg/kg

Skin irritation : irritating

Sensitisation : not sensitizing

Genotoxicity in vitro : negative

Genotoxicity in vivo : negative

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish : no data available

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Behaviour in environmental compartments : no data available

12.5 Results of PBT and vPvB assessment

Assessment : This mixture contains no substance considered to be persistent,

bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Additional advice : There is no data available for this product.

The following ecotoxicological data refer to:

Didecyldimethylammonium chloride (CAS-No.: 7173-51-5)

Acute toxicity
Exposure time: 96 h
Method: US-EPA

Toxicity to fish (NOEC) 0,032 mg/l
Species: Danio rerio (zebra fish)
Chronic toxicity
Exposure time: 34 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (EC50) : 0,062 mg/l
Species: Daphnia magna (Water flea)
Immobilization
Exposure time: 48 h
Method: EPA-FIFRA

(NOEC) 0,010 mg/l
Species: Daphnia magna (Water flea)
Reproduction Test
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to algae (ErC50) : 0,026 mg/l
Species: Pseudokirchneriella subcapitata (green algae)
Growth inhibition
Exposure time: 96 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Toxicity Species: Pimephales promelas (fathead minnow)

Toxicity to fish (LC50)
: 0,19 mg/l

Toxicity to bacteria (EC50) : 11 mg/l
Species: activated sludge
Respiration inhibition
Exposure time: 3 h
Method: OECD Test Guideline 209

Persistence and degradability

Biodegradability

: Modified Sturm Test: 72 %
Readily biodegradable
Testing period: 28 d
Method: OECD Test Guideline 301B

Die-Away Test: 93,3 %
Testing period: 28 d

OECD Confirmatory Test: 91 %
Testing period: 24 - 70 d
Method: OECD Test Guideline 303 A

The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Behaviour in environmental compartments

: Mobility in soil
Method: US-EPA

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
Contact waste disposal services.

Contaminated packaging : Dispose of as unused product.

SECTION 14: Transport information

IATA 14.1 UN number : 2920

14.2 Proper shipping name

: Corrosive liquid, flammable, n.o.s.
(Didecyldimethylammonium chloride, Ethanol)

14.3 Transport hazard class : 8 14.4 Packing group : II Labels : 8 (3) 14.5
Environmental hazards : no IMDG 14.1 UN number : 2920

14.2 Proper shipping name : Corrosive liquid, flammable, n.o.s.
(Didecyldimethylammonium chloride, Ethanol)

14.3 Transport hazard class : 8 14.4 Packing group : II
Labels : 8 (3)
EmS Number 1 : F-E
EmS Number 2 : S-C

14.5 Environmental hazards : Marine pollutant: yes ADR 14.1 UN number : 2920

14.2 Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
(Didecyldimethylammonium chloride, Ethanol)

14.3 Transport hazard class : 8
14.4 Packing group : II Classification Code : CF1
Hazard Identification Number : 83
Labels : 8 (3)

14.5 Environmental hazards : yes

RID 14.1 UN number : 2920

14.2 Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
(Didecyldimethylammonium chloride, Ethanol)

14.3 Transport hazard class : 8
14.4 Packing group : II Classification Code : CF1
Hazard Identification Number : 83
Labels : 8 (3)

14.5 Environmental hazards : yes
DOT

14.1 UN number : 1903

14.2 Proper shipping name : Disinfectants, liquid, corrosive n.o.s.
(Didecyldimethylammonium chloride)

14.3 Transport hazard class : 8 14.4 Packing group : II
Labels : 8
Emergency Response Guidebook : 153

Number 14.5 Environmental hazards
: no TDG 14.1 UN number : 2920

14.2 Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
(Didecyldimethylammonium chloride, Ethanol)

14.3 Transport hazard class : 8 14.4 Packing group : II
Labels : 8 (3)

14.5 Environmental hazards : no

14.6	Special precautions for user	: none
14.7	Transport in bulk according to Code	: Not applicable Annex II of MARPOL 73/78 and the IBC

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. **National legislation**

Water contaminating class : WGK 2: water endangering
(Germany)

15.2 Chemical Safety Assessment not required

SECTION 16: Other information

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of R-Phrases

R11	Highly flammable.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R50	Very toxic to aquatic organisms.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
