

**Safety data sheet**  
**complying with Regulation 1907/2006/EC (REACH Regulation),**  
**EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 20.02.2024

Version number 2 (replaces version 1)

Revision: 20.02.2024

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

### 1.1 Product identifier

**Trade name: DALCO-QUAT**  
**UFI: K5DU-W1SY-200S-U5DR**

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

No further relevant information available.

#### **Application of the substance / the mixture:**

FOOD AREA DISINFECTANT BASED ON QUATERTANIUM AMMONIUM SALTS

### 1.3 Details of the supplier of the safety data sheet

#### **Manufacturer/Supplier:**

DALCOCHEM SA  
 DETERGENTS, DISINFECTANTS, COSMETICS INDUSTRY  
 213 KARAMANLI AV, ACHARNAI  
 Zip Code: 13677  
 TEL .: +30 210 2460401/609  
 www.dalcochem.gr  
 e-mail: info@dalcochem.gr

### 1.4 Emergency telephone number:



European Emergency Tel.: 112

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation EC No 1272/2008 CLP:**



GHS05 corrosion

Skin Corr. 1B      H314 Causes severe skin burns and eye damage.

Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms:**

GHS05 GHS09

**Signal word:** Danger**Hazard-determining components of labelling:**

alkyl dimethyl benzyl ammonium chloride

**Hazard statements:**

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.

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

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P310 Immediately call a POISON CENTER/doctor.

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

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

cationic surfactants

≥5 - &lt;15%

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Determination of endocrine-disrupting properties**

The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture consisting of the following hazardous ingredients:**Ingredients according Regulation (EU) 2020/878:**

CAS: 68424-85-1

alkyl dimethyl benzyl ammonium chloride

≥5-&lt;15%

EINECS: 270-325-2

⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Chronic 1, H410  
 (M=1); ⚠ Acute Tox. 4, H302, EUH071

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**SVHC**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No 1907/2006 (REACH), Article 59)

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

In case of discomfort, consult a doctor.

**After eye contact:**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes.

Get medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

**After swallowing:**

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Rinse mouth with water.

Consult the doctor immediately and show the label or this Safety Data Sheet.

Never give anything by mouth to an unconscious person.

**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:**

CO<sub>2</sub>, powder or water spray.

Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

**5.3 Advice for firefighters****Protective equipment:**

Self-contained breathing apparatus and protective clothing in case of fire.

Wear eye protection.

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**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Mouth respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

**6.1.1 For non-emergency personnel** Avoid contact with dripping or leaking material**6.1.2 For emergency responders**

Wear protective equipment. Keep unprotected persons away.

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

Use neutralising agent.

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

Attempt to concentrate and prevent dispersion by mechanical means, taking all safety measures and wearing appropriate clothing and equipment to protect against alkaline substances.

**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Open and handle receptacle with care.

Prevent formation of dust.

**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage:** Store in tightly closed containers, in a cool and dry place with good ventilation.**Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.**Information about storage in one common storage facility:** Not stored with alkalis**Further information about storage conditions:**

Store under lock and key and with access restricted to technical experts or their assistants only.

Store under lock and key and out of the reach of children.

**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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**8.2 Exposure controls****Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

On no account inhale vapours.

Do not eat or drink while working.

**Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

**Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

**Eye/face protection**

Tightly sealed goggles (EN 166).

**Body protection:**

Protective work clothing

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Boots

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Physical state</b>	Liquid
<b>Colour:</b>	Colorless to yellowish
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined
<b>Melting point/freezing point:</b>	Not determined
<b>Flammability</b>	Not applicable
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Flash point:</b>	Not Flammable
<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	>100 °C
<b>pH</b>	pH (1% σε H <sub>2</sub> O)@ 20 °C 7.4 pH (10% σε H <sub>2</sub> O)@ 20 °C 8.0±0.5
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic:</b>	Not determined
<b>Solubility</b>	
<b>water:</b>	Fully miscible
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Vapour pressure:</b>	Not determined
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined
<b>Relative density</b>	Not determined
<b>Vapour density</b>	Not determined

### 9.2 Other information

Thermal decomposition: the product does not decompose if used according to the instructions for use (decomposes at temperatures above 100 °C). The product is not self-igniting.

#### Appearance:

**Form:** Liquid

#### Important information on protection of health and environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Setting temperature / range:**

**Oxidising properties** Not oxidising

**Evaporation rate** Not determined

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**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity****10.1 Reactivity** Stable under normal conditions**10.2 Chemical stability** Material is stable under normal conditions.**Thermal decomposition / conditions to be avoided** Stable at environment temperature.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid**

High Temperatures

Humidity

**10.5 Incompatible materials** No further relevant information available.**10.6 Hazardous decomposition products**

Fumes containing amine vapors and carbon monoxide may appear in case of a large fire.

**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.**LD/LC50 values relevant for classification:**

(CAS: 68424-85-1) Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Acute oral toxicity (LD50) : 344 mg/kg

Species: Rat

Acute dermal toxicity (LD50) : 3340 mg/kg

Species: Rabbit

Exposure time: 24 h

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

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**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**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.**Additional toxicological information:** Avoid high temperatures and humidity.**Repeated dose toxicity** Based on available data, the classification criteria are not met.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:**

(CAS: 68424-85-1) Chlorides of benzyl-C12-16-alkyldimethyl quaternary ammonium compounds

Toxicity to fish (LC50): 0,28 mg/l

Species: Pimephales promelas (fathead minnow)

Acute toxicity

Exposure time: 96 hours

Method: US-EPA

Toxicity to fish (NOEC) 0,032 mg/l

Species: Pimephales promelas (fathead minnow)

Early life stage

Exposure time: 34 d

Method: EPA-FIFRA

Toxicity to Daphnia and others  
aquatic invertebrates (EC50)

: 0,016 mg/l

Species: Daphnia magna

Immobilisation

Exposure time: 48 hours

Method: OECD test guideline 202

(NOEC) 0,0042 mg/l

Species: Daphnia magna

Reproduction test

Exposure time: 21 d

Method: EPA-FIFRA

Toxicity to algae (ErC50): 0.049 mg/l

Species: Pseudokirchneriella subcapitata (green algae)

Cell proliferation inhibition test

Exposure time: 72 hours

Method: OECD 201 Test Guideline

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Factor M (acute aquatic toxicity): 10  
 Factor M (Chronic aqueous toxicity): 1

Toxicity to bacteria (EC50): 7,75 mg/l  
 Species: activated sludge  
 Respiratory inhibition  
 Exposure time: 3 hours  
 Method: OECD Test Guideline 209

**12.2 Persistence and degradability**

The surfactant(s) contained in this preparation 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.

**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties**

The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

**12.7 Other adverse effects****Remark:** Toxic for fish**Additional ecological information:****General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.

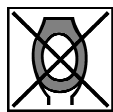
Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

The product is bactericidal, algicidal, etc. and therefore may affect biological processes. This is reduced by its tendency to be absorbed by solid particles.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

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**Uncleaned packaging:****Recommendation:**

Before disposing of it, contact the relevant local authorities.

In case of failure to recover the material notify the competent waste control authorities.

**SECTION 14: Transport information****14.1 UN number or ID number**  
ADR, IMDG, IATA

UN1760

**14.2 UN proper shipping name**  
ADR

1760 CORROSIVE LIQUID, N.O.S. (alkyl dimethyl benzyl ammonium chloride), ENVIRONMENTALLY HAZARDOUS

IMDG

CORROSIVE LIQUID, N.O.S. (alkyl dimethyl benzyl ammonium chloride), MARINE POLLUTANT

IATA

CORROSIVE LIQUID, N.O.S. (alkyl dimethyl benzyl ammonium chloride)

**14.3 Transport hazard class(es)**

ADR, IMDG

Class  
Label8 Corrosive substances.  
8

IATA

Class  
Label8 Corrosive substances.  
8**14.4 Packing group**  
ADR, IMDG, IATA

II

**14.5 Environmental hazards:**Environmental Hazardous  
Product contains environmentally hazardous substances: alkyl dimethyl benzyl ammonium chloride**Marine pollutant:**Yes  
Symbol (fish and tree)**Special marking (ADR):**

Symbol (fish and tree)

**14.6 Special precautions for user**

Warning: Corrosive substances.

**Hazard identification number (Kemler code):**

80

**EMS Number:**

F-A,S-B

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<b>Stowage Category</b>	B
<b>Stowage Code</b>	SW2 Clear of living quarters.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	E
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>UN "Model Regulation":</b>	UN 1760 CORROSIVE LIQUID, N.O.S. (ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE), 8, II, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended  
Regulation (EC) No.648/2004 on detergents, as amended.**Directive 2012/18/EU****Named dangerous substances - ANNEX I** No named substances are contained.**Seveso category E1** Hazardous to the Aquatic Environment**Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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**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.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:****Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage.  
 H410 Very toxic to aquatic life with long lasting effects.  
 EUH071 Corrosive to the respiratory tract.

**Training hints**


Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

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

Skin corrosion/irritation  
 Serious eye damage/irritation  
 Hazardous to the aquatic environment - short-term (acute) aquatic hazard  
 Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Department issuing SDS:**

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 REACH & Chemical Services Department  
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**Version number of previous version: 1****Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

EN