



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name QUAT 800

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

Identified uses Industrial use.

1.3. Details of the supplier of the safety data sheet

Interhatch, Whittington Way, S41 9AG

1.4. Emergency telephone number

Emergency telephone 01246 264646

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Classification (EC 1272/2008)

Physical hazards Not Classified
 Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318
 Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms
 Signal word Danger
 Hazard statements H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.
 Precautionary statements P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep 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.
 P313 Get medical advice/ attention.
 P501 Dispose of contents/ container in accordance with national regulations.
 Supplemental label information BPR001 Use biocides safely. Always read the label and product information before use.
 Contains ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE, C9-11 ALCOHOL ETHOXYLATE WITH 6,5M ETHYLENE OXIDE
 Detergent labelling 5 - < 15% cationic surfactants, 5 - < 15% non-ionic surfactants
 Supplementary precautionary statements P260 Do not breathe vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P310 Immediately call a POISON CENTER/ doctor.
 P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.



SECTION 3: HAZARDS IDENTIFICATION

3.2. Mixtures

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

10-20

CAS number: 68424-85-1

EC number: 270-325-2

M factor (Acute) = 10

M factor (Chronic) = 1

Classification

Met. Corr. 1 - H290

Acute Tox. 4 - H302

Skin Corr. 1B - H314

Eye Dam. 1 - H318

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

C9-11 ALCOHOL ETHOXYLATE WITH 6,5M ETHYLENE OXIDE

5-10%

CAS number: 68439-46-3

Classification

Acute Tox. 4 - H302

Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

Composition comments To the best of our knowledge, all of the substances used in this product are being supported for the relevant application in REACH. The Biocidally Active components of this product are supported in the Biocidal Products Regulation.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information	For immediate First Aid advice in the UK, dial 111. When it is safe to do so, remove victim immediately from source of exposure. However, consideration should be given as to whether moving the victim will cause further injury.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention.
Skin contact	Remove contaminated clothing that is not stuck to the skin. Flush area with clean water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	Neat product may cause chemical burns and permanent eye damage. Dilute product may cause irritation to the skin and eyes.
Inhalation	Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose.
Ingestion	Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical burning of mouth, throat and GI tract will occur. If dilute chemical is ingested some soreness of the mouth, throat and GI tract may occur.
Skin contact	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Use solutions may cause mild irritation, especially to open cuts and abrasions.
Eye contact	May result in permanent eye damage.



4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Rinse well with water. Contains a blend of cationic and nonionic surfactants in aqueous solution.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards On heating corrosive fumes may be produced. In contact with some metals (Aluminium, Zinc and their Alloys) Hydrogen Gas is formed, which may form an explosive mixture with air. Note - Comment refers to neat product.

5.3. Advice for firefighters

Protective actions during firefighting Protective clothing and respiratory protection should be worn when tackling fires involving this product. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid or minimise the creation of any environmental contamination.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Reference to other sections See sections 8,12 & 13

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Refer to section 8. Read and follow manufacturer's recommendations.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Store in a cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) Disinfectant - refer to use instructions

Usage description This product is suitable for use in food and beverage processing plants, but it is not designed for direct food contact.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient comments

Where an exposure level is quoted, a risk assessment should consider if there is a need to monitor the atmosphere of the working environment. Results should be compared against the WEL and/or DNEL information provided. The Long Term WEL refers to total exposure of a worker to a specific substance averaged out over an 8 hour period. The Short Term WEL refers to a single exposure of a worker to a specific substance over a 15 minute period. If the Short Term WEL is exceeded and no Long Term Limit is set, further exposure during the working shift is not permitted. Further controls should be implemented to ensure that future exposure to the substance is reduced below the levels set before the activity is repeated/continued. Where no Short Term WEL exists, guidance from the HSE is to use a value of three times the Long Term WEL. The WEL limits are laid down in the EH40 list as supplied by the HSE. Where a worker is exposed to levels approaching a limit, further exposure control measures should be considered to reduce exposure to the substance. DNEL and/or PNEC information is supplied by manufacturers of substances in accordance with REACH legislation (Regulation (EC) No 1907/2006), and is used to provide suitable risk reduction measures to limit exposure of the user of the substance to a non hazardous level. If the measured level of exposure by a route divided by the DNEL for the route is greater than 1, then further exposure controls should be implemented as described in section 8.2. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

If use of this product generates dust, mists, vapours or fumes, process enclosures or local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits quoted in this msds or other data sources.

Personal protection

The PPE indicated above is not a COSHH assessment. It represents PPE that should be considered during the manufacture, distribution, use and final disposal stages of this product's life cycle. It is the responsibility of employers to conduct a COSHH/risk assessment to determine appropriate PPE levels. The information given below should be used to support this assessment. Where possible replace manual processes with automated or closed processes to minimise contact with the product.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Refer to EN Standard 166 to select appropriate level of protection.

Hand protection

Nitrile Rubber of at least 0.4mm coating thickness with a breakthrough time of >240min. Refer to Standard EN 374 and EN 16523

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.

Hygiene measures

Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Provide eyewash station and safety shower.

Respiratory protection

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit. In the case of dust or aerosol formation (eg spraying), or vapour from hot vessels, use respiratory protection with an approved filter (P2).

Environmental exposure controls

Do not allow the substance to contaminate surface water/ground water. See points 6, 12 & 13. We believe that the disinfectant active component(s) of this formulation represent the greatest environmental risk. Information on these are given in section 12. Users of this product should consult local drainage and permitting authorities to ensure that any restrictions or discharge consents are adhered to.

General Health and Safety Measures.

The above requirements refer to the neat chemical. In-use solutions may have a lower classification, however, a full risk assessment should be carried out before handling any chemical(s). Risk assessments should refer to COSHH and any other relevant legislation or industry specific guidelines governing the use of chemicals.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Colour	Blue.
Odour threshold	Not applicable.
pH pH (concentrated solution):	7 - 9
Flash point	Not available. Not applicable. Contains no Flammable Components
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	0.9 - 1.1 @ 20 Degrees
Bulk density	Not applicable.
Solubility(ies)	Soluble in water.
Partition coefficient	Not applicable. Technically not feasible. Not technically practical for mixtures.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not determined.
Explosive properties	Not applicable.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising. Not applicable. Contains no Oxidising Components.

9.2. Other information

Refractive index	Not applicable.
Particle size	Not applicable.
Molecular weight	Not applicable.
Volatility	Not applicable.
Saturation concentration	Not applicable.
Critical temperature	Not applicable.
Volatile organic compound	Not applicable.
Explosive Properties	Not Classified as Explosive
Storage Temperature Range	

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity	Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. - See note 10.6.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Refer to section 10.1. Do not mix with Hypochlorite based chemicals, this could result in a dangerous heating of the solution.
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10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.
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**10.5. Incompatible materials**

Materials to avoid

Strong acids. Reaction with Aluminium, Zinc, Tin, Copper or their alloys produces flammable Hydrogen Gas.

10.6. Hazardous decomposition products

Hazardous decomposition products

Does not decompose when used and stored as recommended. - See section 10.5.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

ACUTE TOXICITY - ORAL

ATE oral (mg/kg) 3,247.71

RESPIRATORY SENSITISATION

Respiratory sensitisation

No evidence of skin sensitisation for any component of this formulation.

CARCINOGENICITY

Carcinogenicity

The components of this formulation will not be systemically available in the body under normal conditions of handling. As a consequence it is not expected to cause cancer.

REPRODUCTIVE TOXICITY

Reproductive toxicity - fertility

The components of this formulation will not be systemically available in the body under normal conditions of use and handling. As a consequence it is not expected to be toxic to the reproductive system or developing foetus.

General information

Inhalation

See section 4.2.

Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose. - See section 4.2.

Ingestion

Will cause severe irritation to mouth, throat and GI-Tract.

Skin contact

Neat product may cause reddening of skin and with prolonged contact burns. Prolonged or repeated contact of in use solutions with skin may cause redness, itching, irritation and eczema/chapping. Use solutions may cause mild irritation especially to open cuts and abrasions.

Eye contact

Risk of serious damage to eyes. May cause permanent eye injury.

Toxicological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 795.0

Species

Rat

ATE oral (mg/kg)

795.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,560.0

Species

Rat

C9-11 ALCOHOL ETHOXYLATE WITH 6,5M ETHYLENE OXIDE

Acute toxicity - oral

ATE oral (mg/kg) 500.0



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish

Normal use is unlikely to pose a hazard to the environment.
To the best of our current knowledge, the main ecotoxicological effect is due to the Alkyl Benzyl Dimethyl Ammonium Chloride, for which :-
The EC₅₀/48h value for Daphnia is 0.03mg/l.
The EC₅₀/96h value for Selenastrum capricornutum is 0.06mg/l.
The LC₅₀/96h value for Rainbow Trout is 1.7 mg/l.
Behaviour in sewage processing plants - EC₂₀ / 0.5hr = 10mg/l (Activated Sludge).

Ecological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Acute aquatic toxicity

LE(C)₅₀

0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute)

10

Acute toxicity - fish

LC₅₀, 96 hours: 0.93 mg/l, Fish

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 0.0058 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC₅₀, 72 hours: 0.049 mg/l, Algae

Chronic aquatic toxicity

NOEC

0.001 < NOEC ≤ 0.01

Degradability Rapidly degradable

M factor (Chronic)

1

12.2. Persistence and degradability

Persistence and degradability

The surfactant(s) used in this preparation complies (comply) with the biodegradability criteria as laid down in the European Detergents Regulation No 648/2004 as amended.

Ecological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Persistence and degradability

The product is more than 80% biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

Not expected to bioaccumulate.

Partition coefficient

Not applicable. Technically not feasible. Not technically practical for mixtures.

Ecological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility

The product contains substances which are water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

General information	When handling waste, the safety precautions applying to handling of the product should be considered. Do not mix with other chemicals.
Disposal methods	Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID)	1903
UN No. (IMDG)	1903
UN No. (ICAO)	1903
UN No. (ADN)	1903

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)
Proper shipping name (IMDG)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)
Proper shipping name (ICAO)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)
Proper shipping name (ADN)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C9
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8
Transport labels	



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.



SECTION 15: REGULATORY INFORMATION

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

National regulations	UK Adoption and Implementation of the UN Globally Harmonised System (GHS) on Classification and Labelling of Chemicals (GB CLP) and considers UK National REACH legislation.
EU legislation	European Regulation (EC) No 1272/2008 (as amended) on Classification, Labelling and Packaging of Substances and Mixtures. Also considered is the REACH Regulation (EC) No.1907/2006 (as amended).

15.2. Chemical safety assessment

Pcs Information	No chemical safety assessment has been carried out.
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SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

(EC) No. 1272/2008	EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures.
NPIS	National Poisons Information Service.
vPvB	Very Persistent, Very bioaccumulative.
PBT	Persistent, Bioaccumulative & Toxic.
REACH	Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC 1907/2006).
DNEL	Derived No Effect Limit.
PNEC	Predicted No Effect Concentration.
CoSHH	Control of Substances Hazardous to Health.
LC50	Lethal Concentration 50 - The environmental contamination at which 50% mortality is reached over a fixed time scale.
LD50	Lethal Dose 50 - The dose at which 50% of the tested group will die.
Industry	Refers in section 8 to application of the substance in an industrial process.
Professional	Refers in section 8 to application/use of the preparation/product in a skilled trade premises.

General information	This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customer's responsibility to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment. The Risk and Hazard statements listed below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.
Revision comments	Review of Transport Classification Amendment to section 2.1. No change to the formulation.
Revision date	12/11/2021
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
REACH extended MSDS comments	REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevant recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.