

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

InSpec QT Concentrate

Version 3.0 / EN
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Substance name : InSpec QT Concentrate

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

Use of the Substance/Mixture : Active ingredient for biocidal products

1.3 Details of the supplier of the safety data sheet

Company : Redditch Medical (a divn of
Entaco) Unit 90, Heming Road,
Washford Redditch B98 0EA UK
+44 (0) 1527 830490

E-mail address : craig.thomas@redditchmedical.com
Responsible/issuing person

1.4 Emergency telephone number

01527 830940 office hours
+44 (0) 7908 176679 out of hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

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 2	H411	Toxic to aquatic life with long lasting effects.

67/548/EEC / 1999/45/EC

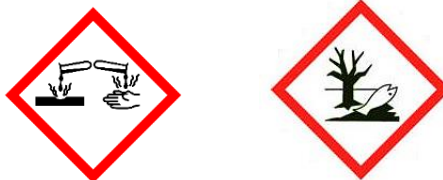
Causes burns.
Very toxic to aquatic organisms.

2.2 Label elements

Labelling according to EC Directives

REGULATION (EC) No 1272/2008

Pictogram/Symbols :



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.
- 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-phrase(s)

- R34 : Causes burns.
- R50 : Very toxic to aquatic organisms.

S-phrase(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 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.

Special labelling of certain mixtures : Use biocides safely. Always read the label and product information before use.

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	< 10 %

Potassium carbonate

584-08-7	209-529-3	Skin Irrit.; 2; H315 Eye Irrit.; 2; H319 STOT SE; 3; H335 Xi; R36/37/38	< 10 %
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2-Aminoethanol

141-43-5	205-483-3	Acute Tox.; 4; H302 Acute Tox.; 4; H312 Acute Tox.; 4; H332 Skin Corr.; 1B; H314 C; R20/21/22, R34	< 10 %
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Propan-2-ol

67-63-0	200-661-7 / 01-2119457558-25-XXX X	Flam. Liq.; 2; H225 Eye Irrit.; 2; H319 STOT SE; 3; H336 F, Xi; R11, R36, R67	< 5 %
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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.

(*) Components with workplace control parameters See chapter 8

SECTION 4: First aid measures

4.1 Description of first aid measures

- Inhalation : Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Give oxygen. First aider needs to protect himself. Call a physician immediately.
- Skin contact : Take off all contaminated clothing immediately. After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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.
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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.
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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.
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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 and explosion : Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed. To maintain product quality, do not store in heat 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
2-Aminoethanol	141-43-5	STEL	4 ppm 10 mg/m ³	SMAK
		TWA	2 ppm 5 mg/m ³	SMAK
		TWA	1 ppm 2,5 mg/m ³	ECTLV
		STEL	3 ppm 7,6 mg/m ³	ECTLV
		MAK (Vapor and aerosol.)	2 ppm 5,1 mg/m ³	DFG MAK

		TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		STEL	6 ppm 15 mg/m ³	NIOSH/GUI D E
		REL	3 ppm 8 mg/m ³	NIOSH/GUI D E
Propan-2-ol	67-63-0	TWA	200 ppm 500 mg/m ³	SMAK
		STEL	400 ppm 1 000 mg/m ³	SMAK
		MAK	200 ppm 500 mg/m ³	DFG MAK
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		REL	400 ppm 980 mg/m ³	NIOSH/GUI D E
		STEL	500 ppm 1 225 mg/m ³	NIOSH/GUI D 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 : Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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	: characteristic
pH	: 12,9 (20 °C)
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: > 65 °C
Vapour pressure	: 23 hPa (20 °C)
Density	: 1,06 g/cm ³ (20 °C)
Water solubility	: completely miscible
Auto-flammability	: not auto-flammable
Viscosity, dynamic	: 30 mPa.s (20 °C)
Explosivity	: Classification Code: Not explosive

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

Exothermic reaction with strong acids. Stable under normal conditions.

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Acids

10.6 Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Additional advice : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

The following toxicological data refer to:

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

Information on toxicological effects

Acute oral toxicity (LD50) : 238 mg/kg
Species: Rat
Method: OECD Test Guideline 401

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

Skin irritation : irritating
Species: Rabbit
Exposure time: 3 min
Method: OECD Test Guideline 404

Sensitisation : not sensitizing
Species: Guinea pig
Buehler Test
Method: US-EPA

Genotoxicity in vitro : negative
Ames test, Salmonella typhimurium
Method: OECD Test Guideline 471

negative
Chromosome aberration test in vitro, Chinese hamster ovary cells

negative
Gene mutation, Chinese hamster ovary cells

Genotoxicity in vivo : negative
Chromosome aberration test in vivo
Application Route: Oral
Species: Rat
Method: OECD Test Guideline 475

2-Aminoethanol (CAS-No.: 141-43-5)

Information on toxicological effects

Acute oral toxicity (LD50)	:	1 510 mg/kg Species: Rat
Acute dermal toxicity (LD50)	:	1 025 mg/kg Species: Rabbit Exposure time: 24 h
Skin irritation	:	Corrosive Species: Rabbit Exposure time: 4 h
Eye irritation	:	Corrosive Species: Rabbit
Genotoxicity in vitro	:	negative Ames test
Genotoxicity in vivo	:	negative In vivo micronucleus test

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 : No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.
Discharge into the environment must be avoided.

The following ecotoxicological data refer to:

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

Toxicity

- Toxicity to fish (LC50) : 0,19 mg/l
Species: Pimephales promelas (fathead minnow)
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 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

2-Aminoethanol (CAS-No.: 141-43-5)

Toxicity

Toxicity to fish (LC50) : 150 mg/l
Species: Oncorhynchus mykiss (rainbow trout)
Acute toxicity
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates (EC50) : 120 mg/l
Species: Daphnia magna (Water flea)
Immobilization
Exposure time: 24 h
Method: OECD Test Guideline 202

Toxicity to algae (EC50) : 15 mg/l
Species: Desmodesmus subspicatus (green algae)
Growth inhibition
Exposure time: 72 h

Toxicity to bacteria (EC50) : > 1 000 mg/l
Species: activated sludge
Respiration inhibition
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to bacteria (EC10) : 6 300 mg/l
Species: Pseudomonas putida
Growth inhibition
Exposure time: 16 h
Method: DIN 38412 Part 8

Persistence and degradability

Biodegradability : Modified Sturm Test: > 80 %
Readily biodegradable
Testing period: 19 d
Method: OECD Test Guideline 301B

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 : 1903
14.2 Proper shipping name : Disinfectant, liquid, corrosive, n.o.s.
(2-Aminoethanol, Didecyldimethylammonium chloride)
14.3 Transport hazard class : 8
14.4 Packing group : III
Labels : 8
14.5 Environmental hazards : no

IMDG

14.1 UN number : 1903
14.2 Proper shipping name : Disinfectant, liquid, corrosive, n.o.s.
(2-Aminoethanol, Didecyldimethylammonium chloride)
14.3 Transport hazard class : 8
14.4 Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
14.5 Environmental hazards : Marine pollutant: yes

ADR

14.1 UN number : 1903
14.2 Proper shipping name : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(2-Aminoethanol, Didecyldimethylammonium chloride)
14.3 Transport hazard class : 8
14.4 Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
14.5 Environmental hazards : yes

RID

14.1 UN number	: 1903
14.2 Proper shipping name	: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (2-Aminoethanol, Didecyldimethylammonium chloride)
14.3 Transport hazard class	: 8
14.4 Packing group	: III
Classification Code	: C9
Hazard Identification Number	: 80
Labels	: 8
14.5 Environmental hazards	: yes

DOT

14.1 UN number	: 1903
14.2 Proper shipping name	: Disinfectants, liquid, corrosive n.o.s. (2-Aminoethanol, Didecyldimethylammonium chloride)
14.3 Transport hazard class	: 8
14.4 Packing group	: III
Labels	: 8
Emergency Response Guidebook Number	: 153
14.5 Environmental hazards	: no

TDG

14.1 UN number	: 1903
14.2 Proper shipping name	: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (2-Aminoethanol, Didecyldimethylammonium chloride)
14.3 Transport hazard class	: 8
14.4 Packing group	: III
Labels	: 8
14.5 Environmental hazards	: no
14.6 Special precautions for user	: None
14.7 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

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

National legislation

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

15.2 Chemical Safety Assessment

InSpec QT Dose Concentrate
not required

SECTION 16: Other information

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of R-Phrases

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.