

Ref. 1.3/REG_EU/EN

FennoCide Quat 40

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Revision Date: 04.04.2017

Previous date: 28.05.2015

Print Date:16.07.2019

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****Commercial Product Name**
FennoCide Quat 40**1.2 Relevant identified uses of the substance or mixture and uses advised against**
Use of the Substance/Mixture

Biocide, disinfectant

Recommended restrictions on use

For industrial use only.

1.3 Details of the supplier of the safety data sheetKEMIRA IBÉRICA, S.A.
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Telephone+34934123050, Telefax. +34934120884HEAD OFFICE
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00101 HELSINKI
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Telephone +358108611 Telefax +358108621124**1.4 Emergency telephone number**

Carechem 24 International: +44 (0) 1235 239 670

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification according to Regulation (EU) 1272/2008(CLP)**

Skin corrosion; Category 1B; Causes severe skin burns and eye damage.

Chronic aquatic toxicity; Category 2; Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity; Category 1; Very toxic to aquatic life.

Acute toxicity; Category 4; Harmful if swallowed.

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2.2 Label elements

Hazardous components which must be listed on the label:

7173-51-5

Didecyltrimethylammonium chloride

2.3 Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

CAS/EU number/REACH Registration Number	Chemical name of the substance	Concentration	Classification according to Regulation (EU) 1272/2008(CLP)
7173-51-5 230-525-2	Didecyltrimethylammonium chloride	40 %	Acute Tox. Category 4,H302 Skin Corr. Category 1B,H314 Aquatic Acute Category 1,H400 Aquatic Chronic Category 2,H411 Met. Corr. Category 1,H290 Eye Dam. Category 1,H318

Further information

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Move to fresh air. In case of shortness of breath, give oxygen. Protection of first-aiders Call a physician immediately.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of 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.

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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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media : powder
Water spray
Foam

5.2 Special hazards arising from the substance or mixture

Toxic fumes may be released.

5.3 Advice for firefighters

Self-contained breathing apparatus (EN 133)

5.4 Specific methods

Cool containers/tanks with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Shut off the leakage, if it can be done safely. 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). Must be disposed of in accordance with local and national regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Advice on protection against fire and explosion:

Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

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Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Protect from frost.

Materials to avoid:

Anionic compounds

Storage stability:

Storage period 24 Months

7.3 Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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.

8.2.2 Individual protection measures, such as personal protective equipment

Hand protection

Glove material: Nitrile rubber, Break through time: 480 min

Eye protection

Tightly fitting safety goggles or face-shield. Eye wash bottle with pure water

Skin and body protection

Protective suit Rubber boots and apron. Safety shower.

Respiratory protection

If significant amounts of vapour, mist or aerosol are present use respiratory protection. Respirator with combination filter for vapour/particulate (EN 141)

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information (appearance, odour)

Physical state	liquid,
Colour	colourless, yellow
Odour	aromatic

Important health safety and environmental information

pH	5 - 8 (100 g/l, 20 °C)
Explosive properties:	
Vapour pressure	23 hPa (20 °C)
Density	0,944 - 0,964 g/cm³ (20 °C)
Solubility(ies):	
Water solubility	completely miscible
Partition coefficient: n-octanol/water	Pow: 1,2 Didecyldimethylammonium chloride

9.2 Other data

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Material is stable under normal conditions.
Before handling, the product should neither be diluted nor mixed with other chemicals, in order to avoid negative influences on the active ingredient(s).

10.5 Incompatible materials

Materials to avoid : Anionic compounds

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10.6 Hazardous decomposition products**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

LD50/Oral/Rat: 658 mg/kg

LD50/Dermal/Rat: > 2 000 mg/kg

Irritation and corrosion

Skin: Corrosive

Eyes: Corrosive

Mucous membranes: Corrosive

Sensitisation

Guinea pig/Buehler Test/US-EPA

Not sensitizing.

Long term toxicity

Mutagenicity

OECD Test Guideline 471:

Result: not mutagenic

Teratogenicity

/OECD Test Guideline 414:

Not teratogenic.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Aquatic toxicity**

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LC50/96 h/Branchydanio rerio (zebra fish): 0,97 mg/l
 EC50/48 h/Daphnia (water flea): 0,06 mg/l
 EC50/98 h/Green algae (Selenastrum capricornutum): 0,03 mg/l

Toxicity to other organisms

EC0/active sludge: 2 mg/l
 Remarks: Didecyldimethylammonium chloride
 Depending on concentration, toxic effects on activated sludge organisms are possible.

12.2 Persistence and degradability

Biological degradability:
 Closed Bottle test/OECD Test Guideline 301 D: > 70 %

Readily biodegradable This surfactant complies 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

Partition coefficient: n-octanol/water: Pow: 1,2; Didecyldimethylammonium chloride The product is not expected to bioaccumulate.

12.4.Mobility in soil

Mobility

Vapour pressure: 23 hPa (20 °C)
 Water solubility: completely miscible

12.5. Results of PBT and vPvB 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

Adsorbed organic bound halogens (AOX):
 Product does not add to the AOX-value of the sewage.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Must be disposed of in accordance with local and national regulations.

Contaminated packaging

Where possible recycling is preferred to disposal or incineration.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

1760

Land transport

ADR:

Description of the goods:

14.2 UN proper shipping name

Corrosive liquid, n.o.s. (Didecyldimethylammonium chloride)

14.3 Transport hazard class(es)

8

14.4 Packing group:

II

Classification code:

C9

Risk code

80

ADR/RID-Labels:

8

14.5 Environmental hazards

Environmentally Hazardous

Environmentally Hazardous

Sea transport

IMDG:

Description of the goods:

14.2 UN proper shipping name

UN1760, CORROSIVE LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE)

14.3 Transport hazard class(es):

8

14.4 Packing group:

II

IMDG-Labels:

8

14.5 Environmental hazards:

Marine pollutant

Marine pollutant

Air transport

ICAO/IATA:

Description of the goods

14.2 UN proper shipping name

UN1760, Corrosive liquid, n.o.s. (Didecyldimethylammonium chloride)

14.3 Transport hazard class(es):

8

14.4 Packing group:

II

ICAO-Labels:

8

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14.8 Special precautions for user

Store between 5-25°C.

SECTION 15: REGULATORY INFORMATION

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

Other regulations : In the EU, this product falls under the regulation on biocidal products 528/2012.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under section 3.

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H290	May be corrosive to metals.
H318	Causes serious eye damage.

Training advice

Read the safety data sheet before using the product.

Further information

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.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Relevant changes have been marked with vertical lines.

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