

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 16.08.2018

Version 4.1

SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Catalogue No.	638198
Millipore Ref.	ZWCL01F50
Product name	ROProtect C Qty 48

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

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

Identified uses	Water treatment chemical, Disinfectants and general biocidal products For additional information on uses please refer to the Merck Chemicals portal (www.merckgroup.com).
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1.3 Details of the supplier of the safety data sheet

Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com
Regional representation	Merck Chemicals Ltd * Boulevard Industrial Park * Padge Road * Beeston * Nottingham * NG9 2JR * Tel. 01159 430840 * information@merckchem.co.uk .

1.4 Emergency telephone number	+49 (0) 6151 722440
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SECTION 2. Hazards identification**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008)

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Product name ROProtect C Qty 48

Acute toxicity, Category 4, Oral, H302
Eye irritation, Category 2, H319
Specific target organ toxicity - single exposure, Category 3, H335
Acute aquatic toxicity, Category 1, H400
Chronic aquatic toxicity, Category 1, H410

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.
EUH031 Contact with acids liberates toxic gas.

Precautionary statements

Prevention

P273 Avoid release to the environment.

Response

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

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Reduced labelling (≤125 ml)

Hazard pictograms



Signal word

Warning

Contains: troclosen sodium, dihydrate

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature Mixture

3.1 Substance

Not applicable

3.2 Mixture

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

CAS-No.	Registration number	Classification
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troclosen sodium, dihydrate	(>= 50 % - <= 100 %)	
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51580-86-0	01-2119489371-33-XXXX	
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Acute toxicity, Category 4, H302

Eye irritation, Category 2, H319

Specific target organ toxicity - single exposure, Category 3, H335

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 1, H410

adipic acid	(>= 3 % - < 10 %)	
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Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

124-04-9	01-2116457561-38-	
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Product name ROProtect C Qty 48

XXXX Eye irritation, Category 2, H319

sodium carbonate ($\geq 1\%$ - $< 3\%$)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

497-19-8 01-2119485498-19-

XXXX Eye irritation, Category 2, H319

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

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

irritant effects, Cough, Shortness of breath, Pain

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Carbon dioxide (CO₂), Dry powder

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Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Oxidizing, Risk of dust explosion.

Avoid shock and friction.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of:

Hydrogen chloride gas, nitrous gases

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Ensure supply of fresh air in enclosed rooms.

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6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Observe label precautions.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL)

adipic acid (124-04-9)

Worker DNEL, acute	Systemic effects	inhalation	264 mg/m ³
Worker DNEL, acute	Systemic effects	dermal	38 mg/kg Body weight
Worker DNEL, acute	Local effects	inhalation	5 mg/m ³
Worker DNEL, longterm	Systemic effects	inhalation	264 mg/m ³
Worker DNEL, longterm	Systemic effects	dermal	38 mg/kg Body weight

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Worker DNEL, longterm	Local effects	inhalation	5 mg/m ³
Consumer DNEL, acute	Systemic effects	inhalation	65 mg/m ³
Consumer DNEL, acute	Systemic effects	dermal	19 mg/kg Body weight
Consumer DNEL, acute	Systemic effects	oral	19 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	65 mg/m ³
Consumer DNEL, longterm	Systemic effects	dermal	19 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	oral	19 mg/kg Body weight
<i>sodium carbonate (497-19-8)</i>			
Worker DNEL, longterm	Local effects	inhalation	10 mg/m ³

Predicted No Effect Concentration (PNEC)

adipic acid (124-04-9)

PNEC Fresh water	0.126 mg/l
PNEC Fresh water sediment	0.484 mg/kg
PNEC Marine water	0.0126 mg/l
PNEC Marine sediment	0.0484 mg/kg
PNEC Aquatic intermittent release	0.46 mg/l
PNEC Sewage treatment plant	59.1 mg/l
PNEC Soil	0.0228 mg/kg

sodium carbonate (497-19-8)

PNEC no data available

8.2 Exposure controls

Engineering measures

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Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

Safety glasses

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment

protective clothing

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Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pellets
Colour	white
Odour	characteristic of chlorine
Odour Threshold	0.08 ppm
pH	5.8 - 6.2 at 10 g/l 20 °C
Melting point	240 - 250 °C
Boiling point	No information available.
Flash point	No information available.

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Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	1.6 g/cm ³ at 20 °C
Relative density	No information available.
Water solubility	500 g/l at 25 °C
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	The substance or mixture is not classified as self heating.
Decomposition temperature	76 °C
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	Oxidizing potential

9.2 Other data

Ignition temperature 250 °C

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SECTION 10. Stability and reactivity

10.1 Reactivity

Oxidizing

highly reactive

Risk of dust explosion.

sensitive to shock

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with:

combustible substances, Organic Substances

A risk of explosion and/or of toxic gas formation exists with the following substances:

Ammonia, urea, ammonium compounds, Bases, acids

10.4 Conditions to avoid

Strong heating (decomposition).

Avoid shock and friction.

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

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SECTION 11. Toxicological information

11.1 Information on toxicological effects

Mixture

Acute oral toxicity

Acute toxicity estimate: 625 mg/kg

Calculation method

Symptoms: Irritation of mucous membranes, Pain
absorption

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of
respiratory tract

Acute dermal toxicity

This information is not available.

Skin irritation

This information is not available.

Eye irritation

(External MSDS)

Mixture causes serious eye irritation.

Sensitisation

This information is not available.

Germ cell mutagenicity

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

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Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

Mixture may cause respiratory irritation.

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

11.2 Further information

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Components

troclosene sodium, dihydrate

Acute oral toxicity

LD50 Rat: 550 - 1,600 mg/kg

(External MSDS)

Acute dermal toxicity

LD50 Rabbit: > 5,000 mg/kg

(External MSDS)

Eye irritation

Rabbit

Result: Corrosive

US-EPA

Sensitisation

Sensitisation test (Magnusson and Kligman): Guinea pig

Result: negative

Method: OECD Test Guideline 406

Germ cell mutagenicity

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Product name ROProtect C Qty 48

Genotoxicity in vivo

Rat

male

Oral

Result: negative

Method: OECD Test Guideline 475

Genotoxicity in vitro

Ames test

Escherichia coli

Result: negative

Method: OECD Test Guideline 471

adipic acid

Acute oral toxicity

LD50 Rat: ca. 5,560 mg/kg

OECD Test Guideline 401

Acute inhalation toxicity

LC50 Rat: > 7.7 mg/l; 4 h ; dust/mist

OECD Test Guideline 403

Acute dermal toxicity

LD50 Rabbit: > 7,940 mg/kg

(40% solution) (External MSDS)

Skin irritation

Rabbit

Result: No skin irritation

OECD Test Guideline 404

Eye irritation

Rabbit

Result: Severe irritations

OECD Test Guideline 405

Sensitisation

Maximisation Test Guinea pig

Result: negative

(External MSDS)

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Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test

Chinese hamster lung cells

Result: negative

Method: OECD Test Guideline 476

sodium carbonate

Acute oral toxicity

LD50 Rat: 2,800 mg/kg

(ECHA)

LDLO human: 714 mg/kg

(RTECS)

Acute dermal toxicity

LD50 Rabbit: > 2,000 mg/kg

US-EPA

Skin irritation

Rabbit

Result: No skin irritation

OECD Test Guideline 404

Eye irritation

Rabbit

Result: Eye irritation

US-EPA

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Escherichia coli

Result: negative

(Lit.)

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SECTION 12. Ecological information

Mixture

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

Additional ecological information

Discharge into the environment must be avoided.

Components

troclosene sodium, dihydrate

Toxicity to fish

LC50 Oncorhynchus mykiss (rainbow trout): 0.25 mg/l; 96 h
(ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 0.28 mg/l; 48 h
(ECOTOX Database)

Toxicity to algae

EC50 algae: > 5,000 mg/l; 96 h
OECD Test Guideline 201

Toxicity to bacteria

NOEC activated sludge: 2,700 mg/l; 3 h
OECD Test Guideline 209

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Toxicity to fish (Chronic toxicity)

NOEC: 756 mg/l; 28 d

(ECHA)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Daphnia magna (Water flea): 2,600 mg/l; 21 d

OECD Test Guideline 211

Biodegradability

4 %; 60 d

OECD Test Guideline 306

adipic acid

Toxicity to fish

LC50 Pimephales promelas (fathead minnow): 97 mg/l; 96 h

(ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 46 mg/l; 48 h

OECD Test Guideline 202

Toxicity to algae

static test ErC50 Pseudokirchneriella subcapitata (green algae): 59 mg/l; 72 h

OECD Test Guideline 201

Toxicity to bacteria

EC50 Pseudomonas putida: 92 mg/l; 17 h

DIN 38412

static test EC50 activated sludge: 7,911 mg/l; 3 h

OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC Daphnia magna (Water flea): 6.3 mg/l; 21 d

OECD Test Guideline 211

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Biodegradability

100 %; 28 d

OECD Test Guideline 301B

Readily biodegradable

Biochemical Oxygen Demand (BOD)

598 mg/g (5 d)

(IUCLID)

Theoretical oxygen demand (ThOD)

1,423 mg/g

(IUCLID)

Ratio BOD/ThBOD

BOD5 36 %

(Lit.)

Partition coefficient: n-octanol/water

log Pow: 0.081 (25 °C)

OECD Test Guideline 107

Bioaccumulation is not expected. (IUCLID)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

sodium carbonate

Toxicity to fish

static test LC50 *Lepomis macrochirus* (Bluegill sunfish): 300 mg/l; 96 h

(ECHA)

Toxicity to daphnia and other aquatic invertebrates

semi-static test EC50 *Ceriodaphnia dubia* (water flea): 220 - 227 mg/l; 48 h

US-EPA

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Partition coefficient: n-octanol/water

Not applicable

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Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 13. Disposal considerations

Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Notice Directive on waste 2008/98/EC.

SECTION 14. Transport information

Land transport (ADR/RID)

14.1 UN number UN 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DICHLOROISOCYANURIC ACID SODIUM SALT DIHYDRATE)

14.3 Class 9

14.4 Packing group III

14.5 Environmentally hazardous yes

14.6 Special precautions for user yes

Tunnel restriction code -

Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

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14.1 UN number UN 3077
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S. (DICHLOROISOCYANURIC ACID SODIUM SALT
DIHYDRATE)
14.3 Class 9
14.4 Packing group III
14.5 Environmentally hazardous yes
14.6 Special precautions for user no

Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

Sea transport (IMDG)

14.1 UN number UN 3077
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S. (DICHLOROISOCYANURIC ACID SODIUM SALT
DIHYDRATE)
14.3 Class 9
14.4 Packing group III
14.5 Environmentally hazardous yes
14.6 Special precautions for user yes

EmS F-A S-F

Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

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

Not relevant

SECTION 15. Regulatory information

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

EU regulations

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Major Accident Hazard SEVESO III
Legislation ENVIRONMENTAL HAZARDS
E1
Quantity 1: 100 t
Quantity 2: 200 t

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work. Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

National legislation
Storage class 10 - 13

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.
EUH031 Contact with acids liberates toxic gas.

Precautionary statements

Prevention

P273 Avoid release to the environment.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing.

Contains: trocloses sodium, dihydrate

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.