

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

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

1.1 Product identifier

Orotol® Sauganlagen-Desinfektion

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

Relevant identified uses

Orotol® is a highly effective aldehyde-free concentrate for the simultaneous disinfection, deodorization, cleaning and care of dental suction systems as well as spittoon bowls, being likewise suitable for all amalgam separators.

Products Category [PC]

PC 0 - Other

Disinfectants

Uses advised against

None, if handled according to order.

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier

orochemie GmbH + Co. KG

Street : Max-Planck-Straße 27

Postal code/City : 70806 Kornwestheim

Telephone : +49 7154 1308-0

Telefax : +49 7154 1308-40

Information contact : DÜRR DENTAL SE, Höpfigheimer Str. 17, 74321 Bietigheim-Bissingen, Germany

Tel: +49 7142 705-0, Fax: +49 7142 705-500, info@duerrdental.com

in Great Britain/Ireland:

DÜRR DENTAL [Products] UK Ltd., 14 Linnell Way - Telford Way Industrial Estate, Kettering Northants NN16 8PS, United Kingdom, info@duerruk.com

1.4 Emergency telephone number

INT: +49 6132 84463 (24 h/7 d)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

Skin Corr. 1C ; H314 - Skin corrosion/irritation : Category 1C ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Classification procedure

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)



Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

NA-4-CHLORO-3-METHYLPHENOLATE ; CAS No. : 15733-22-9
SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8
NA-2-BENZYL-4-CHLOROPHENOLATE ; CAS No. : 3184-65-4

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves and eye/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to hazardous or special waste collection point.

2.3 Other hazards

The mixture contains < 0.1 % substances with potential endocrine disrupting properties. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Orotol® contains halogenated alkyl- and arylphenols, complexing agents, solubilizers, benzyl benzoate, amyl cinnamal, fragrances and auxiliary agents in aqueous solution.

Hazardous ingredients

(2-METHOXYMETHYLETHOXY)PROPANOL ; REACH No. : 01-2119450011-60 ; EC No. : 252-104-2; CAS No. : 34590-94-8

Weight fraction : $\geq 5 - < 10 \%$
Classification 1272/2008 [CLP] : Substance with a community workplace exposure limit

NA-4-CHLORO-3-METHYLPHENOLATE ; EC No. : 239-825-8; CAS No. : 15733-22-9

Weight fraction : $\geq 3 - < 5 \%$
Classification 1272/2008 [CLP] : Skin Corr. 1C ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1B ; H317 STOT SE 3 ; H335 Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

Specific Conc. Limits : (M=1)

SODIUM ETHYLENEDIAMINETETRAACETATE ; REACH No. : 01-2119486762-27 ; EC No. : 200-573-9; CAS No. : 64-02-8

Weight fraction : $\geq 1 - < 3 \%$
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

NA-2-BENZYL-4-CHLOROPHENOLATE ; EC No. : 221-681-2; CAS No. : 3184-65-4

Weight fraction : $\geq 1 - < 2,5 \%$
Classification 1272/2008 [CLP] : Carc. 2 ; H351 Repr. 2 ; H361 STOT RE 2 ; H373 Eye Dam. 1 ; H318 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Specific Conc. Limits : (M Chronic=10) • (M Acute=1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

NA-2-PHENYLPHENOLATE ; EC No. : 205-055-6; CAS No. : 6152-33-6

Weight fraction : $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1C ; H314 Acute Tox. 4 ; H302 STOT SE 3 ; H335 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash with plenty of water. When in doubt or if symptoms are observed, get medical advice.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

If swallowed, immediately drink: Water Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

If unconscious but breathing normally, place in recovery position and seek medical advice.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Extinguishing powder Water spray jet Water mist The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

None known.

Hazardous combustion products

None known.

5.3 Advice for firefighters

Adapt protective equipment to surrounding fire.

Special protective equipment for firefighters

Adapt protective equipment to surrounding fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. See protective measures under point 7 and 8.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Personal protection equipment

See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Other information

Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep/Store only in original container. Please note safety instructions and directions for use on the drum. Handle and open container with care. Provide adequate ventilation. Do not breathe vapour/aerosol.

Protective measures

Measures to prevent fire

Usual measures for fire prevention. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed and in a well-ventilated place.

Hints on joint storage

Store the foodstuffs separately.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

(2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8

Limit value type (country of origin) : TWA (EC)

Limit value : 50 ppm / 308 mg/m³

Remark : Skin

Version : 20.06.2019

Limit value type (country of origin) : TLV/TWA (EC)

Limit value : 50 ppm / 308 mg/m³

Remark : H

DNEL-/PNEC-values

There are no data available on the preparation itself.

DNEL/DMEL

SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8

Limit value type : DNEL Consumer (local)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	1,5 mg/m ³
Limit value type :	DNEL Consumer (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	1,5 mg/m ³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	1,5 mg/m ³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	1,5 mg/m ³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	25 mg/kg
Assessment factor :	24 h
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	2,5 mg/m ³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	2,5 mg/m ³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	2,5 mg/m ³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	2,5 mg/m ³

PNEC

SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	2,2 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	1,2 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,22 mg/l
Limit value type :	PNEC Soil, Freshwater
Limit value :	0,72 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	43 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection EN 166

Skin protection

Hand protection

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Body protection

Body protection: not required.

Respiratory protection

Usually no personal respirative protection necessary.

General information

Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

Other protection measures

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : brown

Odour : Phenol

Safety characteristics

Melting point/freezing point :	(1013 hPa)		No data available
Initial boiling point and boiling range :	(1013 hPa)	approx.	100 °C
Decomposition temperature :	(1013 hPa)		No data available
Flash point :			not applicable
Auto-ignition temperature :			not applicable
Lower explosion limit :			not applicable
Upper explosion limit :			not applicable
Vapour pressure :	(50 °C)		No data available
Density :	(20 °C)	approx.	1,05 g/cm ³
Solvent separation test :	(20 °C)	<	3 %
Water solubility :	(20 °C)		100 Weight-%
pH value :			12 - 13
pH value :	(20 °C / 50 g/l)		10,4 - 11,4
log P O/W :			No data available
Flow time :	(20 °C)	<	12 s DIN-cup 4 mm
Odour threshold :			No data available
Maximum VOC content (EC) :			8,8 Weight-%
Oxidising liquids :			Not applicable.
Explosive properties :			Not applicable.
Corrosive to metals :			May be corrosive to metals.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None, if handled according to order.

10.2 Chemical stability

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

Stable under recommended storage and handling conditions (see section 7). Reactions with acids: development of heat.

10.3 Possibility of hazardous reactions

Reactions with acids possible

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

None known.

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.

Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Mouse
Effective dose :	approx. 12 g/kg
Method :	OECD 401
Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	5922 mg/kg
Parameter :	ATE (NA-4-CHLORO-3-METHYLPHENOLATE ; CAS No. : 15733-22-9)
Exposure route :	Oral
Effective dose :	500 mg/kg
Parameter :	ATE (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route :	Oral
Effective dose :	500 mg/kg
Parameter :	ATE (NA-2-BENZYL-4-CHLOROPHENOLATE ; CAS No. : 3184-65-4)
Exposure route :	Oral
Effective dose :	500 mg/kg
Parameter :	ATE (NA-2-PHENYLPHENOLATE ; CAS No. : 6152-33-6)
Exposure route :	Oral
Effective dose :	500 mg/kg

Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	not relevant
Parameter :	LD50 (NA-2-BENZYL-4-CHLOROPHENOLATE ; CAS No. : 3184-65-4)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2500 mg/kg
Parameter :	LD50 (NA-2-PHENYLPHENOLATE ; CAS No. : 6152-33-6)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 5000 mg/kg

Acute inhalation toxicity

Parameter :	ATEmix calculated
Exposure route :	Inhalation (vapour)
Effective dose :	not relevant
Parameter :	LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

Exposure route : Inhalation
Species : Rat
Effective dose : 30 mg/l
Exposure time : 6 h
Parameter : LC50 (NA-2-BENZYL-4-CHLOROPHENOLATE ; CAS No. : 3184-65-4)
Exposure route : Inhalation
Species : Rat
Effective dose : 2,43 mg/l
Exposure time : 4 h

Corrosion

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

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.

11.2 Information on other hazards

Endocrine disrupting properties

The mixture contains < 0.1 % substances with potential endocrine disrupting properties.

Additional information

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Toxic to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 951 mg/l
Exposure time : 96 h
Parameter : LC50 (NA-2-PHENYLPHENOLATE ; CAS No. : 6152-33-6)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 4 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Leuciscus idus (golden orfe)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 2040 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 100 mg/l
Exposure time : 96 h
Parameter : EC50 (NA-2-PHENYLPHENOLATE ; CAS No. : 6152-33-6)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 1,35 mg/l
Exposure time : 72 h

Chronic (long-term) fish toxicity

Parameter : NOEC (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Danio rerio (zebrafish)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : >= 36,9 mg/l
Exposure time : 840 h
Method : OECD 210
Parameter : NOEC (NA-2-PHENYLPHENOLATE ; CAS No. : 6152-33-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,009 mg/l
Exposure time : 504 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 140 mg/l
Exposure time : 48 h
Parameter : EC50 (NA-2-PHENYLPHENOLATE ; CAS No. : 6152-33-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 2,7 mg/l
Exposure time : 48 h
Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 500 mg/l
Exposure time : 24 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 25 mg/l
Exposure time : 504 h

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h

Terrestrial toxicity

Toxicity to soil macroorganisms except of arthropods

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

Acute earthworm toxicity

Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Acute earthworm toxicity
Effective dose : 156 mg/kg
Exposure time : 336 h
Method : OECD 207

12.2 Persistence and degradability

Abiotic degradation

No data available.

Biodegradation

Parameter : BOD (% of COD) (NA-2-PHENYLPHENOLATE ; CAS No. : 6152-33-6)
Inoculum : Degree of elimination
Degradation rate : 75 %
Test duration : 672 h
Method : OECD 301D

The organic ingredients are biodegradable at the dilution rates arising in the sewage system.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Distribution

There are no data available on the preparation itself.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

The mixture contains < 0.1 % substances with potential endocrine disrupting properties.

12.7 Other adverse effects

No information available.

12.8 Additional ecotoxicological information

Prevent from flowing into surface water/ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

After intended use

Disposal operations

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Recovery operations

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Waste codes/waste designations according to EWC/AVV

Concentrate/larger quantities: 18 01 06* (disinfectant).

SECTION 14: Transport information

14.1 UN number

UN 1719

14.2 UN proper shipping name

Land transport (ADR/RID)

CAUSTIC ALKALI LIQUID, N.O.S. (contains SODIUMPHENOLATES)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

Sea transport (IMDG)

CAUSTIC ALKALI LIQUID, N.O.S. (contains SODIUMPHENOLATES)

Air transport (ICAO-TI / IATA-DGR)

CAUSTIC ALKALI LIQUID, N.O.S. (contains SODIUMPHENOLATES)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C5
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 1 | · E 2
Hazard label(s) : 8 / N

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 1 | · E 2
Hazard label(s) : 8 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 2
Hazard label(s) : 8

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 75

National regulations

Restrictions of occupation

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
Print date : 19.01.2023

Version (Revision) : 4.0.0 (3.0.1)

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 15. Restrictions on use

16.2 Abbreviations and acronyms

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimates
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CMR = Carcinogen, Mutagen or Reproductive toxicant
CO₂ = Carbon dioxide
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EC = European Commission
EC50 = Half maximal effective concentration
EN = European Standard (Norm)
EU = European Union
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
H statement = GHS Hazard statement
IATA = International Air Transport Association ICAO-TI = International Civil Aviation Organization-Technical Instructions
IMDG = International Maritime Dangerous Goods
LC50 = Median lethal concentration
LD50 = Median lethal dose
LogPow = Logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOEC/NOEL = No observed effect concentration/level
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RMM = Risk Management Measure
RRN = REACH Registration Number
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
SVHC = Substances of Very High Concern
TLV/STEL = Threshold limit value/short-term exposure limit
TLV/TWA = Threshold limit value/time weighted average
UN = United Nations
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : Orotol® Sauganlagen-Desinfektion
Revision date : 20.09.2022
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Version (Revision) : 4.0.0 (3.0.1)

H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

Follow the instructions for use on the label.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
