

Safety Data Sheet

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

Trade name : EXPERT Cleaner
Revision : 13.11.2019
Print date : 04.12.2019

Version (Revision) : 4.0.0 (3.0.1)

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

1.1 Product identifier

EXPERT Cleaner

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

Relevant identified uses

Expert cleaner is a highly alkaline special detergent which is only allowed to be used by dental maintenance engineers. Expert cleaner is particularly recommended for professionally cleaning and sanitizing insufficiently cleaned suction systems inclusive of their drainage lines. Expert cleaner is also suitable for systems with amalgam separators.

Products Category [PC]

PC35 - PC 35 - Washing and cleaning products

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 (manufacturer/importer/only representative/downstream user/distributor)

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

Tel: +44 1536 526740, Fax.: +44 1536 526749, 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]

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

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

Classification procedure

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05)

Signal word

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Danger

Hazard components for labelling

SODIUM METASILICATE PENTAHYDRATE ; CAS No. : 10213-79-3

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves and eye/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.

P353 Rinse skin with water [or shower].

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

Corrosive to metals.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Expert cleaner contains potassium hydroxide, sodium metasilicate, alkaline cleaning components, foam-inhibited surfactants, dispersants and adjuvants in aqueous solution.

Hazardous ingredients

TETRAPOTASSIUM DIPHOSPHATE ; REACH No. : 01-2119489369-18 ; EC No. : 230-785-7 ; CAS No. : 7320-34-5

Weight fraction : $\geq 10 - < 15$ %

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 4 ; H413

SODIUM METASILICATE PENTAHYDRATE ; REACH No. : 01-2119449811-37 ; EC No. : 229-912-9 ; CAS No. : 10213-79-3

Weight fraction : $\geq 5 - < 10$ %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335

POTASSIUM HYDROXIDE ; REACH No. : 01-2119487136-33 ; EC No. : 215-181-3 ; CAS No. : 1310-58-3

Weight fraction : $\geq 2 - < 4$ %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

SODIUM CAPRYL IMINO DIPROPIONATE ; REACH No. : - ; EC No. : 305-318-6 ; CAS No. : 94441-92-6

Weight fraction : $\geq 1 - < 3$ %

Classification 1272/2008 [CLP] : None

1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; REACH No. : 01-2119510391-53 ; EC No. : 220-552-8 ; CAS No. : 2809-21-4

Weight fraction : $\geq 1 - < 3$ %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

C8 ALKYLGLUCOSIDE ; REACH No. : 01-0000016147-72 ; EC No. : 414-420-0

Weight fraction : $\geq 1 - < 3$ %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318

2-ETHYLHEXANOL ETHOXYLATE ; REACH No. : - ; CAS No. : 26468-86-0

Weight fraction : $\geq 0,5 - < 2$ %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

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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.

After 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.

4.3 Indication of any immediate medical attention and special treatment needed

None

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.

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

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Absorb with liquid-binding material (e.g. 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. Keep in a cool, well-ventilated place. Do not store in temperatures below 5 °C.

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

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

Limit value type (country of origin) : TLV/STEL (GB)

Limit value : 2 mg/m³

DNEL-/PNEC-values

There are no data available on the preparation itself.

DNEL/DMEL

Limit value type : DNEL Consumer (systemic) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,68 mg/l

Limit value type : DNEL Consumer (systemic) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : > 70 mg/kg

Safety factor : 24 h

Limit value type : DNEL Consumer (systemic) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 10,87 mg/m³

Limit value type : DNEL worker (systemic) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 2,79 mg/m³

Limit value type : DNEL worker (systemic) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)

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Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 44,08 mg/m³
Limit value type : DNEL Consumer (local) (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1 mg/m³
Limit value type : DNEL worker (local) (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1 mg/m³
Limit value type : DNEL worker (systemic) (SODUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 97,8 mg/m³
Limit value type : DNEL worker (systemic) (SODUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8,3 mg/m³
Limit value type : DNEL Consumer (systemic) (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 6,5 mg/kg
Safety factor : 24 h
Limit value type : DNEL worker (systemic) (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 13 mg/kg
Safety factor : 24 h

PNEC
Limit value type : PNEC (Aquatic, freshwater) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Limit value : 0,05 mg/l
Limit value type : PNEC (Aquatic, intermittent release) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Limit value : 0,5 mg/l
Limit value type : PNEC (Aquatic, marine water) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Limit value : 0,005 mg/l
Limit value type : PNEC (Sewage treatment plant) (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Limit value : 50 mg/l
Limit value type : PNEC (Aquatic, freshwater) (SODUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Limit value : 0,48 mg/l
Limit value type : PNEC (Aquatic, marine water) (SODUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Limit value : 0,048 mg/l
Limit value type : PNEC (Sediment, freshwater) (SODUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Limit value : 5,92 mg/kg
Limit value type : PNEC (Sediment, marine water) (SODUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Limit value : 0,592 mg/kg

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Limit value type :	PNEC (Sewage treatment plant) (SODUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Exposure route :	Water (Including sewage plant)
Limit value :	2,46 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route :	Water (Including sewage plant)
Limit value :	0,136 mg/l
Limit value type :	PNEC (Aquatic, marine water) (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route :	Water (Including sewage plant)
Limit value :	0,0136 mg/l
Limit value type :	PNEC (Industrial) (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route :	Soil
Limit value :	96 mg/kg
Limit value type :	PNEC (Sediment, marine water) (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route :	Soil
Limit value :	5,9 mg/kg
Limit value type :	PNEC Soil, Freshwater (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route :	Soil
Limit value :	59 mg/kg
Limit value type :	PNEC (Secondary poisoning) (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Limit value :	12 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route :	Water (Including sewage plant)
Limit value :	20 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection DIN EN 166

Skin protection

Hand protection

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 respiratory 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

Technical measures to prevent exposure

Provide adequate ventilation.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid
Colour : colourless
Odour : characteristic

Safety characteristics

Melting point/freezing point :	(1013 hPa)		No data available
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)		1,17 - 1,18 g/cm ³
Solvent separation test :	(20 °C)	<	3 %
Water solubility :	(20 °C)		100 Wt %
pH value :			13,5 - 14
log P O/W :			No data available
Flow time :	(20 °C)	<	20 s DIN-cup 4 mm
Odour threshold :			No data available
Maximum VOC content (EC) :			0 Wt %
Explosive properties :	Not applicable.		
Corrosive to metals :	Uniform corrosion attack.		

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None, if handled according to order.

10.2 Chemical stability

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

Reactions with acids: development of heat. Reacts with metals (e. g. aluminium, zinc, magnesium) under the formation of hydrogen.

10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself.

Acute toxicity

Acute oral toxicity

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Parameter : ATEmix calculated
Exposure route : Oral
Effective dose : 9259 mg/kg
Parameter : LC50 (SODIUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg
Parameter : LD50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Exposure route : Oral
Species : Mouse
Effective dose : > 2000 mg/kg
Parameter : LD50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route : Oral
Species : Rat
Effective dose : 365 mg/kg
Parameter : LD50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 - 5000 mg/kg
Parameter : LD50 (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route : Oral
Species : Rat
Effective dose : 2350 mg/kg
Parameter : LD50 (C8 ALKYLGLUCOSIDE)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Exposure route : Oral
Species : Rat
Effective dose : 2440 mg/kg
Parameter : LD50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Exposure route : Oral
Species : Rat
Effective dose : > 1000 mg/kg
Parameter : LD50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route : Oral
Species : Rat
Effective dose : 273 mg/kg
Parameter : ATE (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route : Oral
Effective dose : 500 mg/kg
Parameter : ATE (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route : Oral
Effective dose : 500 mg/kg

Practical experience/human evidence

Causes severe skin burns and eye damage.

Acute dermal toxicity

Parameter : ATEmix calculated
Exposure route : Dermal
Effective dose : 61111 mg/kg
Parameter : LD50 (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route : Dermal
Species : Rabbit
Effective dose : 7940 mg/kg
Parameter : LD50 (C8 ALKYLGLUCOSIDE)

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Exposure route : Dermal
Species : Rat
Effective dose : > 5000 mg/kg
Parameter : LD50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 - 5000 mg/kg
Parameter : LD50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Method : OECD 402
Parameter : LD50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 4640 mg/kg
Parameter : LD50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 300 mg/kg
Parameter : ATE (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Exposure route : Dermal
Effective dose : 1100 mg/kg

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation (vapour)
Effective dose : 611,1 mg/l
Parameter : LC50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Exposure route : Inhalation
Species : Rat
Effective dose : > 1,1 mg/l
Method : OECD 403
Parameter : LD50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Exposure route : Inhalation
Species : Rat
Effective dose : > 20,1 mg/l

Corrosion

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

No data available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No information available.

11.5 Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

There are no data available on the mixture itself.

Acute (short-term) fish toxicity

Parameter : LC50 (SODUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity

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Effective dose : > 100 mg/l
Exposure time : 96 h
Parameter : LC50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 100 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 13 mg/l
Exposure time : 96 h
Parameter : LC50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Species : Gambusia affinis (Mosquito fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 80 mg/l
Exposure time : 96 h
Parameter : LC50 (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 368 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM METASILICATE PENTAHYDRATE ; CAS No. : 10213-79-3)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 210 mg/l
Exposure time : 96 h
Parameter : LC50 (C8 ALKYLGLUCOSIDE)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 310 mg/l
Exposure time : 96 h
Parameter : LC50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Species : Poecilia reticulata (Guppy)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 165 mg/l
Exposure time : 24 h
Parameter : LC50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 10 - 100 mg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 100 mg/l
Exposure time : 96 h
Method : OECD 203

Acute (short-term) toxicity to crustacea

Parameter : EC50 (SODIUM CAPRYL IMINO DIPROPIONATE ; CAS No. : 94441-92-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202

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Parameter : EC50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 6,5 mg/l
Exposure time : 48 h

Parameter : EC50 (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 500 mg/l

Parameter : EC50 (SODIUM METASILICATE PENTAHYDRATE ; CAS No. : 10213-79-3)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 216 mg/l
Exposure time : 96 h

Parameter : EC50 (C8 ALKYLGLUCOSIDE)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h

Parameter : EC50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 1 - 10 mg/l
Exposure time : 48 h

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h
Method : OECD 201

Parameter : EC50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 6,6 mg/l
Exposure time : 72 h

Parameter : EC50 (1-HYDROXYETHANE-1,1-DIPHOSPHONIC ACID ; CAS No. : 2809-21-4)
Species : Selenastrum capricornutum
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 7,2 mg/l

Parameter : EC50 (C8 ALKYLGLUCOSIDE)
Species : Selenastrum capricornutum
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h

Parameter : EC50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 1 - 10 mg/l
Exposure time : 72 h

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Chronic (long-term) algae toxicity

Parameter : NOEC (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Species : Algae
Evaluation parameter : Chronic (long-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h
Method : OECD 201

Toxicity to microorganisms

Parameter : EC50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Evaluation parameter : Bacteria toxicity
Effective dose : 22 mg/l
Exposure time : 15 min
Parameter : EC50 (TETRAPOTASSIUM DIPHOSPHATE ; CAS No. : 7320-34-5)
Evaluation parameter : Bacteria toxicity
Effective dose : > 1000 mg/l
Exposure time : 3 h
Parameter : EC50 (2-ETHYLHEXANOL ETHOXYLATE ; CAS No. : 26468-86-0)
Species : Bacteria toxicity
Effective dose : 680 mg/l
Exposure time : 4 h
Parameter : EC0 (SODIUM METASILICATE PENTAHYDRATE ; CAS No. : 10213-79-3)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : > 1000 mg/l
Exposure time : 0,5 h

Effects in sewage plants

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected. The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.2 Persistence and degradability

Abiotic degradation

No data available.

Biodegradation

The organic ingredients are biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Distribution

There are no data available on the preparation itself.

Adsorption

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Prevent from flowing into surface water/ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

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Waste codes/waste designations according to EWC/AVV

Waste code product

Concentrate/larger quantities: 20 01 15* lyes.

Waste treatment options

Appropriate disposal / Product

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

Appropriate disposal / Package

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

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. (POTASSIUM HYDROXIDE)

Sea transport (IMDG)

CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)

Air transport (ICAO-TI / IATA-DGR)

CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)

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 1
Hazard label(s) : 8

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 1 | · E 1 · IMDG-Code segregation group 18 - Alkalis
Hazard label(s) : 8

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 1
Hazard label(s) : 8

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

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

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 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

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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]

No information available.

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life.

16.6 Training advice

None

16.7 Additional information

Notice the directions 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.
