

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

FD 300 Surface disinfection

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

Relevant identified uses

FD 300 is an aldehyde-free preparation for the disinfection and cleaning of all washable surfaces and objects (practice inventory, patient chairs, medical equipment, floors, walls, etc.).

Product categories

PC8 - Biocidal products (e.g. Disinfectants, pest control)

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 AG, Postfach 1264, D-74302 Bietigheim-Bissingen

Phone No.: +49 7142 705-0, Telefax No.: +49 7142 61365, info@duerr.de

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DÜRR DENTAL [Products] UK Ltd., 14 Linnell Way - Telford Way Industrial Estate, GB-Kettering Northants NN16 8PS

Phone No.: +44 1536 526740, Telefax No.: +44 1536 526749, info@duerruk.com

1.4 Emergency Telephone Number

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

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Causes severe burns. · Harmful: danger of serious damage to health by prolonged exposure if swallowed.

N ; R 50/53 · C ; R 35 · Xn ; R 48/22

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations



C ; Corrosive



N ; Dangerous for the environment

Hazard components for labelling

3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE ; CAS No. : 94667-33-1
POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

R-phrases

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
35 Causes severe burns.
48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

S-phrases

61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
37/39 Wear suitable gloves and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.
28 After contact with skin, wash immediately with plenty of water.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .

2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

Description

FD 300 contains quaternary ammonium compounds, alkylamines, non-ionic surfactants, alkaline cleaning components, complexing agents, fragrances and auxiliary agents in aqueous solution.

Hazardous ingredients

3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; REACH registration No. : - ; EC No : 219-145-8; CAS No. : 2372-82-9

Weight fraction : 10 - 15 %
Classification 67/548/EEC : N ; R50 C ; R35 Xn ; R48/22 Xn ; R22
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 STOT RE 2 ; H373 Skin Corr. 1A ; H314 Aquatic Acute 1 ; H400

DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE ; REACH registration No. : - ; CAS No. : 94667-33-1

Weight fraction : 5 - 10 %
Classification 67/548/EEC : N ; R50/53 C ; R34 Xn ; R22
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

FATTY ALCOHOL POLYGLYCOL ETHER ; REACH registration No. : 02-2119549526-31 ; CAS No. : 61827-42-7

Weight fraction : 5 - 10 %
Classification 67/548/EEC : Xi ; R41 Xn ; R22
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

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

Weight fraction : 1 - 5 %
Classification 67/548/EEC : Xi ; R41 Xn ; R20/22
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332

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

Weight fraction : 1 - 2 %
Classification 67/548/EEC : C ; R35 Xn ; R22
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Acute Tox. 4 ; H302

Additional information

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

4. First aid measures

4.1 Description of first aid measures

General information

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

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).

After 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. 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

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

High power 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.

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 protective 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 (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Other information

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

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

6.4 Reference to other sections

None

7. Handling and storage

7.1 Precautions for safe handling

Keep/Store only in original container. Notice the directions for use on the label.
Open and handle container with care. Provide adequate ventilation. Do not breathe aerosol.

Protective measures

Fire prevent measures

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 storage assembly

Store the foodstuffs separately.

7.3 Specific end use(s)

None

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/DMEL and PNEC values

There are no data available on the preparation itself.

DNEL/DMEL

Limit value type : DNEL/DMEL (Consumer) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)

Exposure route : Inhalation

Exposure frequency : Long Term (repeated)

Limit value : 1,5 mg/m³

Limit value type : DNEL/DMEL (Consumer) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)

Exposure route : Inhalation

Exposure frequency : Short term (acute)

Limit value : 1,5 mg/m³

Limit value type : DNEL/DMEL (Consumer) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)

Exposure route : Oral

Exposure frequency : Long Term (repeated)

Limit value : 25 mg/kg

Safety factor : 24 kg/h

Limit value type : DNEL/DMEL (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)

Exposure route : Inhalation

Exposure frequency : Long Term (repeated)

Limit value : 2,5 mg/m³

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

Limit value type : DNEL/DMEL (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Short term (acute)
Limit value : 2,5 mg/m³

PNEC

Limit value type : PNEC (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 2,2 mg/l
Limit value type : PNEC (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 0,22 mg/l
Limit value type : PNEC (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Soil
Limit value : 0,72 mg/kg
Limit value type : PNEC (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 43 mg/l

8.2 Exposure controls

Personal protective 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 respirative protection necessary.

General health and safety measures

Keep away from food, drink and animal feeding stuffs. 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.

Occupational exposure controls

Technical measures to prevent exposure

Provide adequate ventilation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : liquid

Colour : light blue

Odour

amines

Safety relevant basis data

Melting point / melting range : (1013 hPa) no data available

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

Boiling temperature/boiling range: (1013 hPa)	ca.	100	°C	
Flash point :		not applicable		DIN 51755
Ignition temperature :		not applicable		
Lower explosion limit :		not applicable		
Upper explosion limit :		not applicable		
Density :	(20 °C)	1,01 - 1,08	g/cm ³	
Water solubility :	(20 °C)	100	Wt %	
pH value :	(20 °C / 20 g/l)	11,4 - 12,4		

9.2 Other information

None

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

No information available.

10.6 Hazardous decomposition products

None known.

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter : LD50
Exposure route : Oral
Species : Rat
Effective dose : > 200 mg/kg

Methode : OECD 401. - OECD 402.

Practical experience/human evidence

Causes severe skin burns and eye damage. 22 - Harmful if swallowed.

Irritant and corrosive effects

In vitro skin corrosion: corrosive. Methode : OECD 431.

Sensitisation

Guinea-pig: non-sensitizing (1 % solution). Methode : OECD 406.

11.4 Additional information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC) as well as to our own test reports.

12. Ecological information

12.1 Toxicity

Aquatic toxicity

There are no data available on the preparation itself.

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

Acute (short-term) fish toxicity

Parameter : LC50 (DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE ; CAS No. : 94667-33-1)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 0,78 mg/l
Exposure time : 96 h
Parameter : LC50 (3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 0,68 mg/l
Exposure time : 96 h
Parameter : LC50 (3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 0,45 mg/l
Exposure time : 96 h
Parameter : LC50 (DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE ; CAS No. : 94667-33-1)
Species : Cyprinus carpio (Common Carp)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 0,63 mg/l
Exposure time : 96 h
Parameter : LC50 (DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE ; CAS No. : 94667-33-1)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 0,52 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE ; CAS No. : 94667-33-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 0,07 mg/l
Exposure time : 48 h
Parameter : EC50 (3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 0,073 mg/l
Exposure time : 48 h

Chronic (long-term) daphnia toxicity

Parameter : NOEC (3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,024 mg/l
Exposure time : 504 h

Acute (short-term) algae toxicity

Parameter : ErC50 (3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Inhibition of growth rate
Effective dose : 0,054 mg/l
Exposure time : 96 h
Parameter : EbC50 (DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE ; CAS No. : 94667-33-1)
Species : Desmodesmus subspicatus

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

Evaluation parameter : Inhibition of growth rate
Effective dose : 0,15 mg/l
Exposure time : 72 h

Bacteria toxicity

Parameter : EC50 (3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9)
Species : Bacteria toxicity
Evaluation parameter : Bacteria toxicity
Effective dose : 18 mg/l
Exposure time : 3 h

Effects in sewage plants

No ecological problems are expected when used and handled properly.

12.2 Persistence and degradability

Abiotic degradation

No data available.

Biodegradation

The organic ingredients are biodegradable at the dilution rates arising in the sewage system. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

There are no data available on the preparation itself.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Further ecological information

Prevent from flowing into surface water/ground water.

13. Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes / waste designations according to EWC / AVV

Waste code product

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

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.

14. Transport information

14.1 UN number

UN 1719

14.2 UN proper shipping name

Land transport (ADR/RID)

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

CAUSTIC ALKALI LIQUID, N.O.S. (3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE)

Sea transport (IMDG)

CAUSTIC ALKALI LIQUID, N.O.S. (3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE)

Air transport (ICAO-TI / IATA-DGR)

CAUSTIC ALKALI LIQUID, N.O.S. (3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE)

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 I · LQ22 · E 2
Hazard label(s) : 8 / N

Sea transport (IMDG)

Class(es) : 8
EmS-No : F-A / S-B
Special provisions : LQ 1 I · 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

15. Regulatory information

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 substance a chemical safety assessment has not been carried out.

16. Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

None

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

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

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Category 1 ; Very toxic to aquatic life.

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Category 1 ; Very toxic to aquatic life with long lasting effects.

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

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

STOT RE 2 ; H373 - Specific target organ toxicity (repeated exposure) : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

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

Hazard pictograms



Health hazard (GHS08) · Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9

DIDECYL-METHYL-POLY(OXYETHYL)-AMMONIUMPROPIONATE ; CAS No. : 94667-33-1

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

Hazard Statements

H373 May cause damage to organs through prolonged or repeated exposure.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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/protective clothing/eye protection/face protection.
P333/313 If skin irritation or rash occurs: Get medical advice/attention.
P305/351/338 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/shower.
P403/233 Store in a well-ventilated place. Keep container tightly closed.

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

H290 May be corrosive to metals.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
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.
20/22 Harmful by inhalation and if swallowed.

Safety Data Sheet

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

Trade name : FD 300 Surface disinfection
Revision date : 06.11.2012
Date of print : 22.11.2012

Version : 1.0.0

22	Harmful if swallowed.
34	Causes burns.
35	Causes severe burns.
41	Risk of serious damage to eyes.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50	Very toxic to aquatic organisms.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.6 Training advice

None

16.7 Additional information

Notice the directions for use on the label.

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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.
