

# Safety Data Sheet

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

**Trade name :** FD 312 wet wipes Surface disinfection  
**Revision date :** 12.01.2023  
**Print date :** 26.06.2023

**Version (Revision) :** 4.1.0 (3.0.1)

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

#### 1.1 Product identifier

FD 312 wet wipes Surface disinfection  
Unique Formula Identifier : not applicable

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

##### Relevant identified uses

FD 312 wet wipes are ready-for-use cloths for the wipe disinfection and cleaning of floors, practice inventory etc.

##### Products Category [PC]

PC 8 - Biocidal products

Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals

##### 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

Although there is no labelling required for this product, we nevertheless advise observation of the safety recommendations.

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

None

#### 2.2 Label elements

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

###### Precautionary statements

P280 Wear protective gloves.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of water/....

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.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Description

Wet wipes contain ready-for-use FD 312 solution. One cloth contains alkyl-benzyltrimethylammonium chloride, non-ionic detergent, alkaline cleaning components, complexing agent, fragrances and auxiliary agents in aqueous solution.

##### Hazardous ingredients

BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; REACH No. : 01-2119965180-41 ; EC No. : 269-919-4; CAS No. : 68391-01-5

Weight fraction : < 0,07 %

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

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

##### 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

When in doubt or if symptoms are observed, get medical advice.

##### Following inhalation

No special measures are necessary.

##### 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

No special measures are necessary. Never give anything by mouth to an unconscious person or a person with cramps.

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

#### 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 (CO<sub>2</sub>) 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

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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

Dispose of used cloths in the household waste - do not throw them down the toilet.

#### 6.3 Methods and material for containment and cleaning up

##### For cleaning up

No special measures are necessary.

##### Other information

Dispose of used cloths in the household waste - do not throw them down the toilet.

#### 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.

##### 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

##### DNEL-/PNEC-values

There are no data available on the preparation itself.

###### DNEL/DMEL

BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5

Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	3,4 mg/kg
Assessment factor :	24 h
Limit value type :	DNEL Consumer (systemic)

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Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1,64 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 3,4 mg/kg  
Assessment factor : 24 h  
Limit value type : DMEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 5,7 mg/kg  
Assessment factor : 24 h  
Limit value type : DMEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 3,96 mg/m<sup>3</sup>

### PNEC

BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 0,0009 mg/l  
Limit value type : PNEC (Aquatic, intermittent release)  
Limit value : 0,00016 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,00009 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 12,27 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 13,09 mg/kg  
Limit value type : PNEC (Soil)  
Limit value : 7 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 0,4 mg/l

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

No special measures are necessary.

#### 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

No special measures are necessary.

### General information

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

### Other protection measures

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Provide adequate ventilation.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Soaking solution - wipes

**Appearance :** wipes  
**Colour :** white  
**Odour :** aromatic

##### Safety characteristics

<b>Melting point/freezing point :</b>	( 1013 hPa )		not determined	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	approx.	100	°C
<b>Decomposition temperature :</b>	( 1013 hPa )		not determined	
<b>Flash point :</b>			not applicable	
<b>Auto-ignition temperature :</b>			not applicable	
<b>Lower explosion limit :</b>			not applicable	
<b>Upper explosion limit :</b>			not applicable	
<b>Vapour pressure :</b>	( 50 °C )		not determined	
<b>Density :</b>	( 20 °C )	approx.	1	g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )		not applicable	
<b>Water solubility :</b>	( 20 °C )		not applicable	
<b>pH value :</b>			10,3 - 11,3	
<b>log P O/W :</b>			not determined	
<b>Flow time :</b>	( 20 °C )		not applicable	DIN-cup 4 mm
<b>Odour threshold :</b>			not determined	
<b>Maximum VOC content (EC) :</b>			0	Weight-%
<b>Flammable solids :</b>		Not applicable.		
<b>Oxidising solids :</b>		Not applicable.		
<b>Explosive properties :</b>		Not applicable.		
<b>Corrosive to metals :</b>		Not 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

Stable under recommended storage and handling conditions (see section 7).

#### 10.3 Possibility of hazardous reactions

None, if handled according to order.

#### 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

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### Acute toxicity

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

#### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	5613 mg/kg
Method :	OECD 401
Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	not relevant
Parameter :	ATE ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )
Exposure route :	Oral
Effective dose :	500 mg/kg

#### Practical experience/human evidence

Skin and eye contact: frequent and long lasting contact may cause irritation.

#### Acute dermal toxicity

Parameter :	LD50
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402
Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	not relevant
Parameter :	ATE ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )
Exposure route :	Dermal
Effective dose :	1100 mg/kg

#### Acute inhalation toxicity

Parameter :	ATEmix
Exposure route :	Inhalation (vapour)
Effective dose :	not relevant

### Corrosion

Based on available data, the classification criteria are not met. Concentrate: In vitro skin corrosion: irritant. Method : OECD 431. Wipes: Not an irritant.

### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met. Concentrate: Guinea-pig: non-sensitizing. Method : OECD 406.

### 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

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### 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

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

##### Acute (short-term) fish toxicity

Parameter : LC50 ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,28 mg/l  
Exposure time : 96 h

##### Chronic (long-term) fish toxicity

Parameter : NOEC ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 0,032 mg/l  
Exposure time : 816 h

##### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 0,016 mg/l  
Exposure time : 48 h  
Method : OECD 202

##### Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,0042 mg/l  
Exposure time : 504 h

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

Parameter : ErC50 ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 0,049 mg/l  
Exposure time : 72 h  
Method : OECD 201

##### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )  
Species : Algae  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : 0,009 mg/l

##### Toxicity to microorganisms

Parameter : EC50 ( BENZYL DIMETHYL ALKYL AMMONIUM CHLORIDE ; CAS No. : 68391-01-5 )  
Species : Bacteria toxicity  
Effective dose : 7,75 mg/l  
Exposure time : 3 h  
Method : OECD 209

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### 12.2 Persistence and degradability

#### Abiotic degradation

No data available.

#### Biodegradation

No data available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

#### Distribution

There are no data available on the product itself. No data available

### 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

Do not allow to enter into surface water or drains.

## 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. Dispose of used cloths in the household waste - do not throw them down the toilet. Consult the appropriate local waste disposal expert about waste disposal.

##### Recovery operations

Packaging should 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

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

### 14.7 Maritime transport in bulk according to IMO instruments

not applicable



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### 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. : 75

##### Other regulations (EU)

##### Regulation (EU) No 528/2012 (Biocidal products)

Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals

##### National regulations

##### Restrictions of occupation

None

#### 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. Label elements · 11. Acute toxicity · 11. Corrosion · 11. Respiratory or skin sensitisation · 11. Carcinogenicity · 11. Germ cell mutagenicity · 11. Reproductive toxicity · 11. STOT-single exposure · 11. STOT-repeated exposure · 11. Aspiration hazard · 12. Aquatic toxicity · 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

CO<sub>2</sub> = 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]

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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.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

Follow the instructions 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.

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