

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

#### 1.1. Product identifier

Trade name : Bechtofix plus; Becht XL Wipes plus

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Medical device  
Germicide  
Cleaning agent

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Alfred Becht GmbH  
Carl-Zeiss-Str. 16  
77656 Offenburg  
T +49 781 60586-0 - F +49 781 60586-40

##### Email competent person

klug@becht-online.de

#### 1.4. Emergency telephone number

Emergency number : National Poison Information Service (NPIS)  
24 hour national number professionals only  
0844 892 0111National Health Service (NHS)  
24 hour national number consumer  
England and Scotland: 111  
Wales: 0845 46 47  
Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226

Serious eye damage/eye irritation, Category 1 H318

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of hazard classes and H-statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02



GHS05

Signal word (CLP) : Danger

Hazardous ingredients : propan-1-ol

Hazard statements (CLP) : H226 - Flammable liquid and vapour  
H318 - Causes serious eye damage  
H412 - Harmful to aquatic life with long lasting effectsPrecautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P280 - Wear eye protection, 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

# Bechtifix plus; Becht XL Wipes plus

## Safety Data Sheet

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

P310 - Immediately call a POISON CENTER, a doctor

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments

: Synthetic presaturated wipes containing the following substances:

Germicide

Mixture of the substances listed below with non-hazardous additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol	(CAS No) 64-17-5 (EC No) 200-578-6 (EC Index No) 603-002-00-5 (REACH-no) 01-2119457610-43-XXXX	10 - 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319
propan-1-ol	(CAS No) 71-23-8 (EC No) 200-746-9 (EC Index No) 603-003-00-0 (REACH-no) 01-2119486761-29-xxxx	5 - 10	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
didecyltrimethylammonium chloride	(CAS No) 7173-51-5 (EC No) 230-525-2 (EC Index No) 612-131-00-6	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))	(CAS No) 68424-85-1 (EC No) 270-325-2	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	(CAS No) 85409-23-0 (EC No) 287-090-7	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
ethanol	(CAS No) 64-17-5 (EC No) 200-578-6 (EC Index No) 603-002-00-5 (REACH-no) 01-2119457610-43-XXXX	(C >= 50) Eye Irrit. 2, H319

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : When in doubt or if symptoms are observed, get medical advice.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Get medical advice if skin irritation persists.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/injuries after eye contact : Serious damage to eyes.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Strong water jet.

# Bechtifix plus; Becht XL Wipes plus

## Safety Data Sheet

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

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.  
Explosion hazard : Explosive vapour/air mixtures may be formed.  
Hazardous decomposition products in case of fire : Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  
Other information : Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate air ventilation. Do not breathe gas/vapour/aerosol.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid sub-soil penetration. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Cover spill with non combustible material, e.g.: sand/earth. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Immediately remove contaminated or damp clothing. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect against frost. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Incompatible materials : Strong oxidizing agent. Acids.

Information about storage in one common storage facility : Store away from. Acids. oxidizing materials.

### 7.3. Specific end use(s)

Follow the directions!.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

ethanol (64-17-5)		
United Kingdom	Local name	Ethanol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1000 ppm
propan-1-ol (71-23-8)		
United Kingdom	Local name	Propan-1-ol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	625 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	250 ppm

# Bechtifix plus; Becht XL Wipes plus

## Safety Data Sheet

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

United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
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### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Chemically resistant protective gloves. EN 374. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves must be replaced after each use and whenever signs of wear or perforation appear

#### Eye protection:

Sealed safety goggles

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. AX

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Synthetic, presaturated wipe.
Colour	: white.
Odour	: perfumed.
Odour threshold	: No data available
pH	: < 10
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 28 °C (DIN EN ISO 3679)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.95 g/cm <sup>3</sup>
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 3 mPa.s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

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## Safety Data Sheet

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

#### didecyldimethylammonium chloride (7173-51-5)

LD50 oral rat	658 mg/kg (OECD 401 method)
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#### Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)) (68424-85-1)

LD50 oral rat	344 mg/kg
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Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: < 10

Serious eye damage/irritation : Causes serious eye damage.  
pH: < 10

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information

### 12.1. Toxicity

#### didecyldimethylammonium chloride (7173-51-5)

LC50 fish 1	0.49 mg/l (96h; Brachydanio rerio (zebra-fish);(OECD 203 method))
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EC50 Daphnia 1	0.057 mg/l EC50 48h - Daphnia magna [mg/l](OECD 202 method))
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ErC50 (algae)	0.156 mg/l (72h;Pseudokirchnerella subcapitata(OECD 201 method)
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NOEC chronic crustacea	0.021 mg/l (21d; Daphnia magna;(OECD 211 method)
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#### Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)) (68424-85-1)

LC50 fish 1	0.28 mg/l (96h; Pimephales promelas; (OECD 203 method))
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EC50 Daphnia 1	0.016 mg/l (48h; Daphnia magna; (OECD 202 method))
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#### propan-1-ol

ErC50 (algae)	9170 mg/l (48 h; Pseudokirchneriella subcapitata)
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### 12.2. Persistence and degradability

#### propan-1-ol (71-23-8)

Persistence and degradability	Readily biodegradable.
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Biodegradation	75 % (20 °C)
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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

#### propan-1-ol (71-23-8)

Log Koc	0.633 (Quantitative structure-activity relationship (QSAR))
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### 12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# Bechtifix plus; Becht XL Wipes plus

## Safety Data Sheet

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

Component	
didecyldimethylammonium chloride (7173-51-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
propan-1-ol (71-23-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available






## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

European List of Waste (LoW) code : 07 01 01\* - aqueous washing liquids and mother liquors

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
3175	3175	3175	3175	3175
<b>14.2. UN proper shipping name</b>				
SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethanol ; n- Propanol)	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethanol ; n- Propanol)	Solids containing flammable liquid, n.o.s. (Ethanol ; n-Propanol)	SOLIDS CONTAINING FLAMMABLE LIQUID, MOLTEN (Ethanol ; n- Propanol)	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethanol ; n- Propanol)
<b>Transport document description</b>				
UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethanol ; n- Propanol), 4.1, II, (E)	UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethanol ; n- Propanol), 4.1, II	UN 3175 Solids containing flammable liquid, n.o.s. (Ethanol ; n-Propanol), 4.1, II	UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, MOLTEN (Ethanol ; n- Propanol), 4.1, II	UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethanol ; n- Propanol), 4.1, II
<b>14.3. Transport hazard class(es)</b>				
4.1	4.1	4.1	4.1	4.1
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : F1  
 Special provisions (ADR) : 216, 274, 601  
 Limited quantities (ADR) : 1kg  
 Excepted quantities (ADR) : E2  
 Transport category (ADR) : 2  
 Hazard identification number (Kemler No.) : 40  
 Orange plates :



Tunnel restriction code (ADR) : E  
 EAC code : 1Z

#### - Transport by sea

Special provisions (IMDG) : 216, 274

# Bechtofix plus; Becht XL Wipes plus

## Safety Data Sheet

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

Limited quantities (IMDG) : 1 kg  
Excepted quantities (IMDG) : E2  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-I

### - Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y441  
PCA limited quantity max net quantity (IATA) : 5kg  
PCA packing instructions (IATA) : 445  
PCA max net quantity (IATA) : 15kg  
CAO max net quantity (IATA) : 50kg  
Special provisions (IATA) : A46

### - Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 216, 274, 601, 800  
Limited quantities (ADN) : 1 kg  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T

### - Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 216, 274, 601  
Limited quantities (RID) : 1kg  
Excepted quantities (RID) : E2  
Transport category (RID) : 2  
Hazard identification number (RID) : 40

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Seveso Information : P5c FLAMMABLE LIQUIDS  
Flammable liquids, Categories 2 or 3 not covered by P5a and P5b

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

# Bechtifix plus; Becht XL Wipes plus

## Safety Data Sheet

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

SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. MSDSs of the suppliers.

Department issuing data specification sheet: : KFT Chemieservice GmbH  
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Safety Data Sheet Service: +49 6155 8981-522

Contact person : Dr. Daniela Krimm

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 3	H226	On basis of test data
Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method

KFT SDS EU 00

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*