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

1.1. Product identifier

Trade name : Bechtozid 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
P.O. Box 1145
77656 Offenburg
T +49 781 60586-0 - F +49 781 60586-40

Email competent person
sds@kft.de

1.4. Emergency telephone number

Emergency number : Poisoning Information Centre Freiburg + 49 761 19240

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 H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS05

Signal word (CLP) : Danger
Contains : n-propanol
Hazard statements (CLP) : H226 - Flammable liquid and vapour.
H318 - Causes serious eye damage.
H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 - Avoid release to the environment.
P280 - Wear eye 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.
P310 - Immediately call a POISON CENTER, a doctor.

2.3. Other hazards

PBT: not relevant – no registration required
vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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	≥ 10 – < 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319
n-propanol	(CAS-No.) 71-23-8 (EC-No.) 200-746-9 (EC Index-No.) 603-003-00-0	≥ 5 – < 10	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
didecyldimethylammonium chloride	(CAS-No.) 7173-51-5 (EC-No.) 230-525-2 (EC Index-No.) 612-131-00-6	≥0,25 - <0,8	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	(CAS-No.) 68424-85-1 (EC-No.) 270-325-2	≥0,25 - <0,8	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 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	≥0,25 - <0,8	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) 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	(50 ≤C < 100) 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. 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 : Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

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

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

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

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 : Toxic fumes may be released. Hydrogen chloride. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

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.

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

Additional hazards when processed : In use, may form flammable vapour-air mixture.

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

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Follow the directions!.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)	
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Ethanol
Occupational exposure limit value (mg/m³)	380 mg/m³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900

didecyldimethylammonium chloride (7173-51-5)	
PNEC (Water)	
PNEC aqua (freshwater)	0.0011 mg/l
PNEC aqua (marine water)	0.00011 mg/l
PNEC aqua (intermittent, freshwater)	0.00021 mg/l
PNEC aqua (intermittent, marine water)	0.000021 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	61.86 mg/kg dwt
PNEC sediment (marine water)	6.186 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.4 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.14 mg/l

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	5.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.96 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	3.4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.64 mg/m³
Long-term - systemic effects, dermal	3.4 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0009 mg/l

PNEC aqua (marine water)	0.00096 mg/l
PNEC aqua (intermittent, freshwater)	0.00016 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	12.27 mg/kg dwt
PNEC sediment (marine water)	13.09 mg/kg dwt
PNEC (Soil)	
PNEC soil	7 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.4 mg/l

n-propanol (71-23-8)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	1723 mg/m³
Long-term - systemic effects, dermal	136 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	268 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	1036 mg/m³
Long-term - systemic effects,oral	61 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	80 mg/m³
Long-term - systemic effects, dermal	81 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	6.83 mg/l
PNEC aqua (marine water)	0.683 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	27.5 mg/kg dwt
PNEC sediment (marine water)	2.75 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.49 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	96 mg/l

Ethanol (64-17-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	950 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	87 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	114 mg/m³
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.96 mg/l

PNEC aqua (marine water)	0.79 mg/l
PNEC aqua (intermittent, freshwater)	2.75 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.6 mg/kg dwt
PNEC sediment (marine water)	2.9 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.63 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.38 kg/kg food
PNEC (STP)	
PNEC sewage treatment plant	580 mg/l

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	1 mg/m³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.000415 mg/l
PNEC aqua (marine water)	0.000042 mg/l
PNEC aqua (intermittent, freshwater)	0.000154 mg/l
PNEC aqua (intermittent, marine water)	0.000154 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	6.81 mg/kg dwt
PNEC sediment (marine water)	0.681 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.36 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.21 mg/l

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:
Chemically resistant protective gloves. EN 374. Chloroprene rubber. Natural rubber. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:
Sealed safety goggles. EN 166

Skin and body protection:
Wear suitable protective clothing. EN 13034. EN ISO 13688

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Short term exposure. Breathing apparatus with filter. A-P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust. For details on conditions of use and maximum use concentrations, see DGUV Regulation 112-190 - Use of respiratory protective equipment.

Environmental exposure controls:
Avoid release to the environment.

Other information:
Do not breathe mist, vapours, Aerosol. Take off immediately all contaminated clothing. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product. Apply emollient cream.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	white.
Odour	:	perfumed.
Odour threshold	:	No data available
pH	:	< 10
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not applicable
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)	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	0.95 g/cm³
Solubility	:	Water: Miscible
Partition coefficient n-octanol/water (Log Pow)	:	Not applicable
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	3 mPa·s
Explosive properties	:	Product is not explosive. Explosive vapour/air mixtures may be formed.
Oxidising properties	:	Non oxidizing.
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.

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

Acids. Strong oxidizing agent.

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

didecyldimethylammonium chloride (7173-51-5)	
LD50 oral rat	264 mg/kg bodyweight (OECD 401 method)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LD50 oral rat	795 mg/kg (OECD 401 method)

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
LD50 oral rat	344 mg/kg bodyweight
LD50 dermal rabbit	≈ 2300 mg/kg bodyweight (1150 mg a.i./kg bw; (OECD 402 method))

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

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

didecyldimethylammonium chloride (7173-51-5)	
LC50 fish 1	0.49 mg/l (96 h; Brachydanio rerio (zebra-fish); (OECD 203 method))
EC50 Daphnia 1	0.057 mg/l (48 h; Daphnia magna; (OECD 202 method))
EC50 72h algae	≈ 0.062 mg/l (72h; Pseudokirchneriella subcapitata; (OECD 201 method))

ErC50 (algae)	0.062 mg/l (72 h; Pseudokirchnerella subcapitata (OECD 201 method))
NOEC chronic crustacea	0.021 mg/l (21 d; Daphnia magna; (OECD 211 method))
NOEC chronic algae	0.013 mg/l (OECD 201 method)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LC50 fish 1	0.85 mg/l (96 h; Pimephales promelas; (OECD 203 method))
EC50 Daphnia 1	0.016 mg/l (48 h; Daphnia magna; (OECD 202 method))
ErC50 (algae)	0.03 mg/l (96 h; Pseudokirchneriella subcapitata; (OECD 211 method))
NOEC chronic crustacea	0.025 mg/l (21 d; Daphnia magna; (OECD 211 method))

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
LC50 fish 1	≈ 1.06 mg/l (96 h; Oncorhynchus mykiss; (OECD 203 method))
EC50 Daphnia 1	0.01 – 0.015 mg/l (48 h; Daphnia magna; (OECD 202 method))
ErC50 (algae)	≈ 0.026 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method))
NOEC chronic fish	≥ 0.0322 mg/l (28 d; Pimephales promelas)
NOEC chronic crustacea	≥ 0.00415 mg/l (21 d; Daphnia magna)
NOEC chronic algae	0.006 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method))

12.2. Persistence and degradability

Bechtozid plus	
Persistence and degradability	The product has not been tested.

didecyldimethylammonium chloride (7173-51-5)	
Persistence and degradability	Readily biodegradable.

n-propanol (71-23-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	75 % (20 d)

Ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	84 % (20 d)

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	95.5 % (28 d; aerobic; (OECD 301B method))

12.3. Bioaccumulative potential

Bechtozid plus	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Bioaccumulative potential	The product has not been tested.

n-propanol (71-23-8)	
Partition coefficient n-octanol/water (Log Pow)	0.2 (25 °C; pH 7; (OECD 117 method))

Ethanol (64-17-5)	
Partition coefficient n-octanol/water (Log Kow)	-0.35 (20 °C)
Bioaccumulative potential	Bioaccumulation unlikely.

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
Partition coefficient n-octanol/water (Log Pow)	≈ 2.48 (20 °C; (OECD 107 method))
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Bechtozid plus	
Ecology - soil	The product has not been tested.

didecyldimethylammonium chloride (7173-51-5)	
Surface tension	25.82 mN/m (OECD 115 method)

n-propanol (71-23-8)	
Partition coefficient n-octanol/water (Log Koc)	0.633 (Quantitative structure-activity relationship (QSAR))

Ethanol (64-17-5)	
Surface tension	22.31 mN/m (20 °C)

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	
Ecology - soil	Low mobility (soil).

12.5. Results of PBT and vPvB assessment

Bechtozid plus
PBT: not relevant – no registration required
vPvB: not relevant – no registration required

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
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	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
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)	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
n-propanol (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

Waste treatment methods	:	Disposal must be done according to official regulations. European waste catalogue.
Sewage disposal recommendations	:	Do not allow into drains or water courses.
Product/Packaging disposal recommendations	:	Do not dispose of with domestic waste. Recycle or dispose of in compliance with current legislation.
European List of Waste (LoW) code	:	07 01 01* - aqueous washing liquids and mother liquors
HP Code	:	HP3 - “Flammable:” — flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; — flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; — flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; — flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; — water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; — other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP4 - “Irritant — skin irritation and eye damage:” waste which on application can cause skin irritation or damage to the eye. HP14 - “Ecotoxic:” waste which presents or may present immediate or delayed risks for one or more sectors of the environment

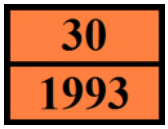
SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol)	FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol)	Flammable liquid, n.o.s. (ethanol ; propan-1-ol)	FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol)	FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol)
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol), 3, III	UN 1993 Flammable liquid, n.o.s. (ethanol ; propan-1-ol), 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol), 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol), 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
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)	:	274, 601
Limited quantities (ADR)	:	5l
Excepted quantities (ADR)	:	E1
Transport category (ADR)	:	3
Hazard identification number (Kemler No.)	:	30
Orange plates	:	
Tunnel restriction code (ADR)	:	D/E

Transport by sea

Special provisions (IMDG)	:	223, 274, 955
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-E

Air transport

PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y344
PCA limited quantity max net quantity (IATA)	:	10L
PCA packing instructions (IATA)	:	355
PCA max net quantity (IATA)	:	60L
CAO max net quantity (IATA)	:	220L
Special provisions (IATA)	:	A3

Inland waterway transport

Classification code (ADN)	:	F1
Special provisions (ADN)	:	274, 601
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	T

Rail transport

Classification code (RID)	:	F1
Special provisions (RID)	:	274, 601
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Transport category (RID)	:	3
Hazard identification number (RID)	:	30

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
3(a)	Bechtozid plus ; Ethanol ; n-propanol
3(b)	Bechtozid plus ; Ethanol ; n-propanol
3(c)	Bechtozid plus
40.	Bechtozid plus ; Ethanol ; n-propanol

Contains no substance on the REACH candidate list ≥ 0,1 % / SCL

Contains no REACH Annex XIV substances in concentration ≥ to the Annex XIV limit values

Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals: Didecyldimethylammonium chloride (7173-51-5)
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Other information, restriction and prohibition regulations : Take note of Directive 94/33/EC on the protection of young people at work.

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water
WGK remark : Classification according to AwSV
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
National Rules and Recommendations : TRGS 400: Risk Assessment for Activities involving Hazardous Substances
TRGS 510: Storage of hazardous substances in non-stationary containers
TRGS 500: Protective measures
TRGS 520: Construction and operation of collection points and temporary storage for small amounts of hazardous waste
TRGS 900: Occupational Exposure Limits
Storage class (LGK) : LGK 3 - Flammable liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:			
Section	**Changed item**	**Change**	**Comments**
2.2	Precautionary statements (CLP)	Modified	
8.1	PNEC	Modified	
15.1	Storage class (LGK)	Modified	

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

SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
IARC	International Agency for Research on Cancer
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PNEC	Predicted No-Effect Concentration
STP	Sewage treatment plant
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
TLM	Median Tolerance Limit

Data sources : ECHA (European Chemicals Agency). MSDSs of the suppliers.
Department issuing data specification sheet : KFT Chemieservice GmbH
Im Leuschnerpark. 3 64347 Griesheim
Germany

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500
Safety Data Sheet Service: +49 6155 8981-522
Contact person : Katharina Rieker
Other information : Version/s 1.00 is/are not available in this language.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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 1, Sub-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.
H301	Toxic if swallowed.
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.