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

1.1 Product identifier
FT 100

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Sectors of use [SU]
Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Industrial uses
Products Category [PC]
PC-CLN-2 - All-purpose (or multi-purpose) non-abrasive cleaners
Uses advised against
Do not use for medical-clinical purposes.

1.3 Details of the supplier of the safety data sheet
Supplier
Bio-Circle Surface Technology GmbH
Street : Berensweg 200
Postal code/City : 33334 Gütersloh
Telephone : +49 5241 9443 0
Telefax : +49 5241 9443 44
Information contact :

Product application:	ae@bio-circle.de
Orders:	www.bio-circle.de service@bio-circle.de
Current safety data sheet:	www.bio-circle.de [DE + EN] service@bio-circle.de
Questions about the contents of the safety data sheet:	ehs@bio-circle.de

1.4 Emergency telephone number
+49 5241 9443 51 during normal office hours
(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]
None

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Special rules for supplemental label elements for certain mixtures
EUH210 Safety data sheet available on request.

2.3 Other hazards
Adverse human health effects and symptoms
This product does not contain any substance in concentrations of 0.1% or more that exhibits endocrine-disrupting properties in humans.
Adverse environmental effects
This product does not contain any substance in concentrations of 0.1% or more that exhibits endocrine-disrupting properties toward non-target organisms.

This product does not contain any substance classified as a PBT or vPvB in concentrations of 0.1% or more.
This product does not contain any substance classified as a PMT or vPvM in concentrations of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

AMMONIA, ANHYDROUS ; REACH No. : 01-2119488876-14-XXXX ; EC No. : 231-635-3; CAS No. : 7664-41-7

Weight fraction :	≥ 0,1 - < 0,2 %
Classification 1272/2008 [CLP] :	Flam. Gas 2 ; H221 Press. Gas (Liq.) ; H280 Acute Tox. 3 ; H331 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411 EUH071
	Substance with a common (EC) occupational exposure limit value.

ETHANOL ; REACH No. : 01-2119457610-43-XXXX ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction :	≥ 5 - < 10 %
Classification 1272/2008 [CLP] :	Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319
Specific Conc. Limits :	Eye Irrit. 2 ; H319: C ≥ 50 %

Further ingredients

3-METHOXYBUTAN-1-OL ; REACH No. : 01-2119548352-41-XXXX ; EC No. : 219-741-8; CAS No. : 2517-43-3

Weight fraction :	≥ 1 - < 5 %

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. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

In case of respiratory tract irritation, consult a physician.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

Protect uninjured eye. 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

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet ; Foam ; Extinguishing powder ; Carbon dioxide (CO2) ; Sand

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO2) , Nitrogen oxides (NOx).

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely.

5.4 Additional information

None

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation.

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

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Avoid: Inhalation of vapours or spray/mists ; Eye contact .

Protective measures

Open windows to ensure natural ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against : Frost .

Requirements for storage rooms and vessels

The floor should be leak tight, jointless and not absorbent.
Suitable container/equipment material: Stainless steel ; Polyethylene (PE)

Hints on joint storage

Storage class (TRGS 510) : 10

Do not store together with

Food and feedingstuffs

Further information on storage conditions

Storage temperature : 2°C - 30°C

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 200 ppm / 380 mg/m³
Peak limitation : 4(II)
Remark : Y
Version : 01.05.2018

AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 14 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 01.12.2007

Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 36 mg/m³
Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 14 mg/m³
Version : 20.06.2019

DNEL-/PNEC-values

DNEL/DMEL

ETHANOL ; CAS No. : 64-17-5
Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 950 mg/m³

Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 87 mg/kg bw/day

Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 206 mg/kg bw/day

Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 114 mg/m³

Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 1900 mg/m³

Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 380 mg/m³

Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 343 mg/kg bw/day

Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 400 mg/kg bw/day

Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 267 mg/kg bw/day

AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7

Limit value type :	DNEL Consumer (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	7,2 mg/m³
Limit value type :	DNEL Consumer (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	2,8 mg/m³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	23,8 mg/m³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	23,8 mg/m³
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	6,8 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	6,8 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Short-term
Limit value :	6,8 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	6,8 mg/kg bw/day
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	14 mg/m³
Limit value type :	DNEL worker (local)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	36 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	47,6 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	47,6 mg/m³
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	6,8 mg/kg bw/day
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Short-term

Limit value : 6,8 mg/kg bw/day

PNEC

ETHANOL ; CAS No. : 64-17-5

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,96 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	2,75 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,79 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	3,6 mg/kg dw
Limit value type :	PNEC (Sediment, marine water)
Limit value :	2,9 mg/kg dw
Limit value type :	PNEC (Soil)
Limit value :	0,63 mg/kg dw
Limit value type :	PNEC (Secondary poisoning)
Limit value :	380 - 720 mg/kg food
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	580 mg/l

3-METHOXYBUTAN-1-OL ; CAS No. : 2517-43-3

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,1 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	1 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,01 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	0,386 mg/kg dw
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,039 mg/kg dw
Limit value type :	PNEC (Soil)
Limit value :	0,018 mg/kg dw
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	15,5 mg/l

AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	1,35 µg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	8,3 µg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	1,35 µg/l
Limit value type :	PNEC (Soil)
Limit value :	0,0221 mg/kg dw

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection

EN 166.

Skin protection

Hand protection



Suitable gloves type : EN 374.
Suitable material : NBR (Nitrile rubber)
Breakthrough time : 480 min.
Thickness of the glove material : 0.4 mm
Remark : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus
Combination filtering device
Type : A

Remark
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (DGUV 112-190).

General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

8.3 Additional information

The minimum requirements for safety and health protection when employees use personal protective equipment at work (89/656/EEC) must be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : colourless

Odour

like: Ammonia

Safety characteristics

Solidifying point :	(1013 hPa)	approx.	-4,5	°C	
Initial boiling point and boiling range :	(1013 hPa)	approx.	90	°C	
Flash point :			48	°C	DIN EN ISO 13736
Auto-ignition temperature :	(ETHANOL)		363	°C	Literature value
Flammability :			flammable		
Lower explosion limit :	(ETHANOL)		3,5	Vol-%	Literature value
Upper explosion limit :	(ETHANOL)		15	Vol-%	Literature value
Vapour pressure :	(20 °C)	<	29	hPa	Calculated
Density :	(20 °C)	approx.	0,98	g/cm^3	

Water solubility :	(20 °C)	completely miscible	
pH :	(20 °C)	10,8	
Relative vapour density :	(20 °C)	not determined	
Maximum VOC content (2010/75/EC) :		12	Weight-%
Maximum VOC content (2010/75/EC) :		117,6	g/l
Maximum VOC content (Switzerland VOCV; SR 814.018) :		12	Weight-%
Taxable VOC content (Switzerland VOCV; SR 814.018 Annex 1) :		8,6	Weight-%

9.2 Other information

Not sustaining combustion. UN Test L.2: Sustained combustibility test

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

Do not spray on naked flames or any incandescent material.

10.4 Conditions to avoid

Avoid high temperatures or direct sunlight.

10.5 Incompatible materials

Alkali metals ; Acid, concentrated. ; Peroxides.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.
Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute oral toxicity

Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	10470 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	> 2000 mg/kg

Acute inhalation toxicity

Parameter :	ATEmix
Exposure route :	Inhalation (vapour)
Effective dose :	> 20 mg/l
Parameter :	ATEmix
Exposure route :	Inhalation (gas)

Effective dose :	> 20000 ml/m³
Parameter :	ATEmix
Exposure route :	Inhalation (dust/mist)
Effective dose :	> 5 mg/l
Parameter :	LC50 (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Exposure route :	Inhalation
Effective dose :	700 ppmV
Parameter :	LC50 (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	9,85 mg/l
Exposure time :	60 min
Parameter :	LC50 (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Exposure route :	Inhalation
Species :	Mouse
Effective dose :	4230 ppm
Exposure time :	1 h
Parameter :	LC50 (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	115,9 - 133,8 mg/l
Exposure time :	4 h
Method :	OECD 403

Corrosion

Skin corrosion/irritation

No further relevant information available.

Serious eye damage/eye irritation

Parameter :	Serious eye damage/eye irritation (ETHANOL ; CAS No. : 64-17-5)
Species :	Rabbit
Result :	Causes serious eye irritation
Method :	OECD 405

No further relevant information available.

Respiratory or skin sensitisation

Skin sensitisation

No further relevant information available.

Sensitisation to the respiratory tract

No further relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No further relevant information available.

Germ cell mutagenicity

No further relevant information available.

Reproductive toxicity

No further relevant information available.

STOT-single exposure

No further relevant information available.

STOT-repeated exposure

No further relevant information available.

Aspiration hazard

No further relevant information available.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not contain any substance in concentrations of 0.1% or more that exhibits endocrine-disrupting

properties in humans.

Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Other adverse effects

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

Additional information

Preparation not tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (3-METHOXYBUTAN-1-OL ; CAS No. : 2517-43-3)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Species :	Acute (short-term) fish toxicity
Effective dose :	0,083 mg/l
Exposure time :	96 h
Parameter :	LC50 (ETHANOL ; CAS No. : 64-17-5)
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	14,2 g/l
Exposure time :	96 h

Chronic (long-term) fish toxicity

Parameter :	LOEC (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	0,022 mg/l
Exposure time :	73 D
Method :	OECD 210
Parameter :	NOEC (ETHANOL ; CAS No. : 64-17-5)
Species :	Danio rerio (zebrafish)
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	250 mg/l
Exposure time :	120 h
Method :	OECD 212

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (3-METHOXYBUTAN-1-OL ; CAS No. : 2517-43-3)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	10 mg/l
Exposure time :	48 h

Parameter :	EC50 (ETHANOL ; CAS No. : 64-17-5)
Species :	Daphnia
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	5012 mg/l
Exposure time :	48 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter :	NOEC (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	0,79 mg/l
Exposure time :	21 D
Parameter :	NOEC (ETHANOL ; CAS No. : 64-17-5)
Species :	Daphnia
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	9,6 mg/l
Exposure time :	10 D

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 (3-METHOXYBUTAN-1-OL ; CAS No. : 2517-43-3)
Species :	Pseudokirchneriella subcapitata
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 100 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	EC50 (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Species :	Chlorella vulgaris
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	2700 mg/l
Exposure time :	18 D
Parameter :	EC50 (ETHANOL ; CAS No. : 64-17-5)
Species :	Chlorella vulgaris
Evaluation parameter :	Inhibition of growth rate
Effective dose :	675 mg/l
Exposure time :	4 D
Method :	OECD 201

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

Parameter :	NOEC (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Species :	Chronic (long-term) toxicity to aquatic algae and cyanobacteria
Effective dose :	>= 15 mg/l
Exposure time :	72 h
Method :	OECD 201

Toxicity to microorganisms

Parameter :	EC50 (3-METHOXYBUTAN-1-OL ; CAS No. : 2517-43-3)
Species :	Toxicity to microorganisms
Effective dose :	> 1000 mg/l
Exposure time :	3 h
Method :	OECD 209
Parameter :	EC10 (3-METHOXYBUTAN-1-OL ; CAS No. : 2517-43-3)
Species :	Toxicity to microorganisms
Effective dose :	155 mg/l
Exposure time :	3 h
Method :	OECD 209
Parameter :	EC50 (ETHANOL ; CAS No. : 64-17-5)
Species :	Bacteria toxicity
Effective dose :	5,8 g/l
Exposure time :	4 h

12.2 Persistence and degradability

According to the recipe, contains no AOX.

Abiotic degradation

Abiotic degradation (Air)

Parameter :	Half-life time (ETHANOL ; CAS No. : 64-17-5)
Degradation rate :	38 h

Biodegradation

Parameter :	BOD (% of COD) (3-METHOXYBUTAN-1-OL ; CAS No. : 2517-43-3)
Inoculum :	Degree of elimination
Evaluation parameter :	Aerobic
Degradation rate :	80 %
Test duration :	28 D
Method :	OECD 301F
Parameter :	Biodegradation (ETHANOL ; CAS No. : 64-17-5)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	approx. 84 %
Test duration :	20 D
Evaluation :	Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Parameter :	Log KOW (ETHANOL ; CAS No. : 64-17-5)
Value :	-0,77 - -0,3
	20 °C
Parameter :	Log KOW (3-METHOXYBUTAN-1-OL ; CAS No. : 2517-43-3)
Value :	0,002
	25 °C

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This product does not contain any substance classified as a PBT or vPvB in concentrations of 0.1% or more.

12.6 Endocrine disrupting properties

This product does not contain any substance in concentrations of 0.1% or more that exhibits endocrine-disrupting properties toward non-target organisms.

12.7 Other adverse effects

No information available.

12.8 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

20 01 30 (Detergents other than those mentioned in 20 01 29)

Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning (Water (with cleaning agent)). Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the

industry and process.

SECTION 14: Transport information

14.1 UN number or ID 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
No transport as bulk according to IBC Code.

14.8 Additional information
No good of class 3 according to ADR/RID chapter 2.2.3.1.1. (combustibility is not sustained).

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

Use restriction according to REACH annex XVII, no. : 40, 75

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

None

National regulations

Störfallverordnung (12. BImschV)

Category : P5b FLAMMABLE LIQUIDS

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.4. III) : < 1 %

Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical Safety Assessment
For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes
01. Relevant identified uses of the substance or mixture and uses advised against · 02. Other hazards · 07. Conditions for safe storage, including any incompatibilities · 08. Occupational exposure limit values

16.2 Abbreviations and acronyms

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road AOX: Adsorbed Organically Bound Halogens
AwSV: German Regulations on Facilities for the Handling of Substances Hazardous to Water
CAS: Chemical Abstracts Service (Department of American Chemical Society)
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL: Derived No Effect Level
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances
EWC/AVV: European Waste Classification Catalog / Waste List Regulation (german integration) GHS: Globally Harmonized System of Classifiaction and Labelling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
Index No.: Identification number in Annex VI of the CLP
PBT: persistent, bioaccumulative and toxic according to REACH
PMT: persistent, mobile and toxic according to REACH
PNEC:Predicted No Effect Concentration
REACH: Regulation (EC) No. 1907/2006
RID: Regulations for the International Transport of Dangerous Goods by Rail (Règlement concernant le transport international ferroviaire de marchandises dangereuses)
STEL: (Short-Term Exposure Limit)
TLV: Threshold Limit Value
TRGS: German Technical Rules for Hazardous Substances ("Technische Regel für den Umgang mit Gefahrstoffen")
TWA: Time-Weighted Average
UFI: Unique Formula Identifier
VOC: volatile organic compound
vPvB: very persistent and very bioaccumulative according to REACH
vPvM: very persistent and very mobile according to REACH
WGK: German Water Hazard Class ("Wassergefährdungsklasse")

16.3 Key literature references and sources for data

AwSV: German Regulations on Facilities for the Handling of Substances Hazardous to Water
DGUV: GESTIS-Stoffdatenbank
Directive 2004/42/EC (on the limitation of emissions of volatile organic compounds resulting from the use of organic solvents in certain paints and varnishes and in vehicle refinishing products)
Directive 2010/75/EU (on emissions from industrial and livestock farming activities)
Directive 92/85/EEC (on maternity protection)
Directive 94/33/EC (on the protection of young people at work)
EC_Safety Data Sheet of Suppliers
ECHA: Classification And Labelling Inventory
ECHA: Registered Substances
GDL: Gefahrstoffdatenbank der Länder
Industrial Safety Regulation – BetrSichV
Major Accidents Ordinance – 12th BImSchV
Regulation (EC) No 1223/2009 (on cosmetic products – Annex III)
Regulation (EC) No 2019/1021 (on persistent organic pollutants)
Regulation (EC) No 2019/1148 (on the marketing and use of explosives precursors)
Regulation (EC) No 528/2012 (on the making available on the market and use of biocidal products)
Regulation (EC) No 648/2004 (on detergents)
Regulation (EC) No 649/2012 (on the export and import of dangerous chemicals)
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council Regulation (EC) No. 1907/2006
|-> REGULATION (EU) 2020/878 of 18 June 2020
Technical Instructions on Air Quality Control – TA Luft
UBA Rigoletto: Wassergefährdende Stoffe

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

H221	Flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

16.6 Training advice

None

16.7 Additional information

None

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.