

Safety Data Sheet

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



Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

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

Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

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 : labor@bio-circle.de

1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours

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

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36-XXXX ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : $\geq 5 - < 10$ %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

AMMONIA, ANHYDROUS ; EC No. : 231-635-3; CAS No. : 7664-41-7

Weight fraction : $\geq 0,1 - < 0,2$ %

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

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

Weight fraction : $\geq 5 - < 10$ %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

Additional information

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

Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

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

In case of respiratory tract irritation, consult a physician. Remove casualty to fresh air and keep warm and at rest.

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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. 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 Foam Extinguishing powder Carbon dioxide (CO₂) Sand Nitrogen Extinguishing blanket

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x). Carbon dioxide (CO₂) Carbon monoxide

5.3 Advice for firefighters

Adapt extinguishing measures to suit the environment. Move undamaged containers from immediate hazard area if it can be done safely. Wear a self-contained breathing apparatus and chemical protective clothing.

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.

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

Safety Data Sheet

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



Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

7.1 Precautions for safe handling

Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against Frost

Hints on joint storage

Storage class (TRGS 510) : 12

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 : 17.10.2017

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 10 ppm / 49 mg/m³
Peak limitation : 4(II)
Remark : H,Y, AGS
Version : 17.10.2017

Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 246 mg/m³
Remark : H
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 98 mg/m³
Remark : H
Version : 08.06.2000

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 : 17.10.2017

Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 36 mg/m³
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 14 mg/m³
Version : 08.06.2000

Biological limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts
Limit value : 100 mg/l
Version : 08.06.2017

Limit value type (country of origin) : TRGS 903 (D)

Safety Data Sheet

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



Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

Parameter : Butoxy acetic acid / Urine (U) / End of exposure or end of shift ; At long term exposure:
after several previous shifts
Limit value : 150 mg/g Kr
Version : 08.06.2017

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL worker (local) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 246 mg/m³
Limit value type : DNEL worker (local) (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 1900 mg/m³
Limit value type : DNEL worker (systemic) (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 950 mg/m³
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 98 mg/m³
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 663 mg/m³
Limit value type : DNEL worker (systemic) (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 343 mg/kg
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 75 mg/kg
Limit value type : DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : 89 mg/kg

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



Wear protective gloves in case of longer lasting skin contact.

Safety Data Sheet

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



Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

Suitable gloves type : EN 374.
Suitable material : NBR (Nitrile rubber)
Breakthrough time (maximum wearing 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. 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 (EN 14387)
Type : A

Remark

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

General health and safety measures

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

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : clear

Odour : characteristic

Safety relevant basis data

Solidifying point :	(1013 hPa)	approx.	-4,5	°C
Initial boiling point and boiling range :	(1013 hPa)	approx.	90	°C
Flash point :			47	°C
Ignition temperature :			not relevant	
Lower explosion limit :			not relevant	
Upper explosion limit :			not relevant	
Vapour pressure :	(50 °C)	<	1000	hPa
Density :	(20 °C)	approx.	0,98	g/cm ³
Water solubility :	(20 °C)		completely miscible	
pH :			10,8	
Flow time :	(20 °C)	approx.	19	s DIN-cup 4 mm
Maximum VOC content (EC) :			13	Wt %
Maximum VOC content (Switzerland) :			13	Wt %

9.2 Other information

Not sustaining combustion

Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

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

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Nitrogen oxides (NOx). Carbon monoxide Carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	350 mg/kg
Parameter :	LD50 (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	10470 mg/kg
Method :	OECD 401
Parameter :	LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	1250 - 1490 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	841 mg/kg
Method :	OECD 402
Parameter :	LD50 (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	20 g/kg

Acute inhalation toxicity

Parameter :	ATEmix calculated
Exposure route :	Inhalation

Safety Data Sheet

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



Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

Effective dose : > 20 mg/l
Parameter : LC50 (AMMONIA, ANHYDROUS ; CAS No. : 7664-41-7)
Exposure route : Inhalation
Species : Mouse
Effective dose : 4230 ppm
Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Inhalation
Species : Rat
Effective dose : 116,9 - 133,8 mg/l
Exposure time : 4 h
Method : OECD 403
Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route : Inhalation
Species : Rat
Effective dose : 2 - 20 mg/l
Exposure time : 4 h

11.2 Toxicokinetics, metabolism and distribution

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

11.3 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.

11.4 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 (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
Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 1474 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 1815 mg/l
Exposure time : 24 h
Method : DIN 38412 / part 11
Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Fish
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 9164 - 14536 mg/l
Exposure time : 200 h
Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Daphnia
Evaluation parameter : Chronic (long-term) daphnia toxicity

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



Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

Effective dose : 1806 mg/l
Exposure time : 10 d
Parameter : LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 297 mg/l
Exposure time : 21 d
Method : OECD 211

Acute (short-term) daphnia toxicity

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

Chronic (long-term) daphnia toxicity

Parameter : NOEC (ETHANOL ; CAS No. : 64-17-5)
Species : Daphnia
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 2 - 9,6 mg/l
Exposure time : 10 d

Parameter : NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : > 100 mg/l
Exposure time : 21 d
Method : OECD 204

Parameter : NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 100 mg/l
Exposure time : 21 d
Method : OECD 211

Parameter : NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Algae
Effective dose : 286 mg/l
Exposure time : 72 h
Method : OECD 201

Acute (short-term) algae toxicity

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Chlorella vulgaris
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 675 mg/l
Exposure time : 4 d
Method : OECD 201

Parameter : EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species : Algae
Effective dose : 1840 mg/l
Exposure time : 72 h
Method : OECD 201

Bacteria toxicity

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

Safety Data Sheet

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



Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

According to the recipe, contains no AOX.

Biodegradation

Parameter :	Biodegradation (ETHANOL ; CAS No. : 64-17-5)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Effective dose :	approx. 84 %
Exposure time :	20 d
Evaluation :	Readily biodegradable (according to OECD criteria).
Parameter :	Biodegradation (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Inoculum :	Biodegradation
Effective dose :	88 %
Exposure time :	20 d

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

07 06 01* - aqueous washing liquids and mother liquors
20 01 29* - detergents containing dangerous substances.

Waste code packaging

15 01 02 - plastic packaging.

Waste treatment options

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

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.

Safety Data Sheet

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



Trade name : FT 100
Revision date : 12.09.2018
Print date : 01.04.2019

Version (Revision) : 4.0.1 (4.0.0)

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

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Restrictions of occupation

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

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

None

National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Technische Anleitung Luft (TA-Luft)

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

Water hazard class (WGK)

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

Other regulations, restrictions and prohibition regulations

Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

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

None

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)

AOX: adsorbierbare organisch gebundene Halogene

CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)

CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)

EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung

ECHA: Europäische Chemikalienagentur (European Chemicals Agency)

EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)

GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)

IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)

ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)

IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)

RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

Safety Data Sheet

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



Trade name : FT 100
Revision date : 12.09.2018
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Version (Revision) : 4.0.1 (4.0.0)

VbF: Verordnung über brennbare Flüssigkeiten
VOC: flüchtige organische Verbindung (volatile organic compound)
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank
ECHA: Classification And Labelling Inventory
ECHA: Pre-registered Substances
ECHA: Registered Substances
EC_Safety Data Sheet of Suppliers
ESIS: European Chemical Substances Information System
GDL: Gefahrstoffdatenbank der Länder
UBA Rigoletto: Wassergefährdende Stoffe
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

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

No information available.

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.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.

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.