

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: FC 165



innovative solutions

Revision Date: 24.07.2020

Replaces version from: 09.09.2019

Version: 2.0/en

Print date: 24.07.2020

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

1.1 Product identifier

Commercial Product Name **FC 165**

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

Relevant identified uses Reserved for industrial and professional use.

Recommended restrictions Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Company designation fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
D-72178 Waldachtal
Telephone: +49(0)7443 12-0
FAX: +49(0)7443 12-4222
Email: info-sdb@fischer.de
Internet: www.fischer.de

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd
Hithercroft Road
Wallingford, Oxfordshire, OX10 9AT
Telephone: +44 01491 827 920
FAX: +44 01491 827 950
Internet: www.fischer.co.uk

1.4 Emergency telephone number

Emergency telephone number +49(0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Flam. Gas 1; H220 Press. Gas; H280

2.2 Label elements

Hazard pictogram



GHS02



GHS04

Signal word

Danger

H-statement(s)

H220: Extremely flammable gas.

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P-statement(s)

H280: Contains gas under pressure; may explode if heated.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381: In case of leakage, eliminate all ignition sources.
P410+P403: Protect from sunlight. Store in a well-ventilated place.

2.3 Other hazards

Health hazard Contains gas under pressure; may explode if heated.

Particular information pertaining specific risk for human / environment Contains gas under pressure; may explode if heated.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
but-1-ene	CAS No.: 106-98-9 EC-No.: 203-449-2 Index-No.: 601-012-00-4	Flam. Gas 1; H220 Press. Gas;	50.0 - 75.0 % by weight
propene	CAS No.: 115-07-1 EC-No.: 204-062-1 Index-No.: 601-011-00-9	Flam. Gas 1; H220 Press. Gas;	25.0 - 50.0 % by weight
Poly(oxy(methyl-1,2-ethandiyl)), alpha-butyl-omega-hydroxy-	CAS No.: 9003-13-8 EC-No.: 500-003-1 REACH No.: 01-2119492302-43	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	1.0 - 5.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice If symptoms persist, call a physician.
Remove/Take off immediately all contaminated clothing.

If inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

In case of skin contact IF ON SKIN: Gently wash with plenty of soap and water.

In case of eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed If swallowed, seek medical advice immediately and show this container or label.
Clean mouth with water and drink afterwards plenty of water. Drink 1 or 2 glasses of water.
Do NOT induce vomiting.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO ₂) Dry powder Foam Water spray jet
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Extinguishing media which must not be used for safety reasons	High volume water jet
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5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	Heating or fire can release toxic gas.
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5.3 Advice for firefighters

Special protective equipment for firefighting	In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.
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Additional information on firefighting	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Keep containers and surroundings cool with water spray. Container may rupture on heating.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak.
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6.2 Environmental precautions

Environmental precautions	The product should not be allowed to enter drains, water courses or the soil. Prevent spreading over a wide area (e.g. by containment or oil barriers).
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Use mechanical handling equipment. Treat recovered material as described in the section "Disposal considerations".
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6.5 Additional information

Other information	Dispose of in accordance with local regulations.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	None under normal processing.
Advice on protection against fire and explosion	No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements	Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with local regulations. Keep only in original container.
Hints on storage assembly	Store in accordance with the particular national regulations.
*TRGS 510	2 A

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection	
Suitable material	butyl-rubber, Nitrile rubber, Chloroprene
Unsuitable material	PVC disposable gloves
Material thickness	>= 0,5 mm
Break through time	>120 min
Remarks	Replace when worn. Request information on glove permeation properties from the glove supplier. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment.
Note	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Smoking, eating and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing.

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Take off all contaminated clothing immediately.
Wash hands before breaks and at the end of workday.
Keep away from food, drink and animal feedingstuffs.
Use protective skin cream before handling the product.

Information on environmental protection regulations

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	gaseous (as liquefied gas)
Colour	diverse
Odour	characteristic
pH	not applicable
Melting point [°C] / Freezing point [°C]	- 185
Initial boiling point [°C] and boiling range [°C]	- 48
Pressure	760 mmHg
Flash point [°C]	No data available
Evaporation rate [kg/(s*m ²)]	No data available
Flammability (solid, gas)	Flammable Gas
Explosion limits [Vol-%]	
Lower limit	1,6
Upper limit	11
Vapour pressure [kPa]	7,6×10 ⁻⁵
Temperature	20 °C
Vapour density	not determined
Density [g/cm ³]	not determined
Partition coefficient n-octanol /water (log P O/W)	No data available
Autoignition temperature [°C]	350
Autoinflammability	not auto-flammable
Viscosity, dynamic [kg/(m*s)]	not relevant (gaseous)
Risk of explosion.	Not explosive

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SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid No decomposition if used as directed.

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral toxicity [mg/kg]

Hazardous ingredients

Poly(oxy(methyl-1,2-ethandiyl)), alpha-butyl-omega-hydroxy-		
Value	Test criterion	Source
500	ATE	Company data

Dermal toxicity [mg/kg]

Hazardous ingredients

Poly(oxy(methyl-1,2-ethandiyl)), alpha-butyl-omega-hydroxy-		
Value	Test criterion	Source
2000	ATE	Company data

11.2 Additional information

Other information (chapter 11.) There is no data available for this product.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]

Hazardous ingredients

Poly(oxy(methyl-1,2-ethandiyl)), alpha-butyl-omega-hydroxy-			
Value	Test criterion	Exposure duration	Source
564	LC50	96 h	Company data

Toxicity to daphnia [mg/l]

Hazardous ingredients

Poly(oxy(methyl-1,2-ethandiyl)), alpha-butyl-omega-hydroxy-			
Value	Test criterion	Exposure duration	Source
> 100	EL50:	48 h	Company data

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Toxicity to algae [mg/l]

Hazardous ingredients

Poly(oxy(methyl-1,2-ethandiyl)), alpha-butyl-omega-hydroxy-			
Value	Test criterion	Exposure duration	Source
358	EL50:	24 h	Company data

12.6 Other adverse effects

Further information on ecology No information on ecology is available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
The product should not be allowed to enter drains, water courses or the soil.
Empty remaining contents.

Uncleaned empty packaging Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	2037	2037	2037
14.2 Description of the goods	RECEPTACLES, SMALL, CONTAINING GAS	RECEPTACLES, SMALL, CONTAINING GAS	Receptacles, small, containing gas
14.3 Transport hazard class(es)	2	2.1	2.1
Remarks	without a release device, non-refillable; flammable	without a release device, non-refillable; flammable	(flammable) without a release device, non-refillable
Labels	2.1	2.1	2.1
Category	2		
Classification Code	5F		
Tunnel restriction code	D		
14.2 UN proper shipping name		RECEPTACLES, SMALL, CONTAINING GAS	Receptacles, small, containing gas
EmS		F-D;S-U	
Stowage category		B	

SECTION 15: Regulatory information

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

TA Luft List (Germany) Organic Substances

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Technical Clean Air Regulations (TA-Luft) Proportion in Class 1	1-5 %
Mass flux	0,1 kg/h
	Organic Substances
Technical Clean Air Regulations (TA-Luft) Proportion in Class 1	> 25 %
Mass flux	0,5 kg/h

15.2 Chemical safety assessment

Safety assessment Not relevant. Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Modifications since last version Modifications of the previous version are denoted with an asterisk ().

Relevant H-phrases H220: Extremely flammable gas.
H280: Contains gas under pressure; may explode if heated.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Wording of the hazard classes Flam. Gas: Flammable gas
Acute Tox.: Acute toxicity
Skin Irrit.: Skin irritation
Eye Irrit.: Serious eye irritation

Recommended restrictions Do not use for private purposes (household).

Modifications of the previous version are denoted with an asterisk (*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.