

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

Commercial Product Name : **FTC-CP Corrosion Protection Spray 500 ml**

Revision Date : 30.03.2017

Version : 2.1 /en

fischer 
innovative solutions

Replaces version from : 26.05.2015

Print date : 05.04.2017

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

1.1 Product identifier

Commercial Product Name **FTC-CP Corrosion Protection Spray 500 ml**

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

Relevant identified uses corrosion protection

Recommended restrictions None under normal processing. Observe technical data sheet.

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, Tel. 01491 827 920, Fax 01491 827 950

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. Aerosol 1; H222 H229 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411

2.2 Label elements

Hazard pictogram



GHS02



GHS07



GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label

Kohlenwasserstoffe , C9 , Aromaten , Kohlenwasserstoffe , C7-C9 , n-Alkane , Isoalkane , Cycloalkane

H-statement(s)

H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.
H336: May cause drowsiness or dizziness.

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P-statement(s)	H411: Toxic to aquatic life with long lasting effects. P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P501: Dispose of contents/container to special waste treatment P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P211: Do not spray on an open flame or other ignition source. P251: Pressurized container: Do not pierce or burn, even after use. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
Further information	EUH066: Repeated exposure may cause skin dryness or cracking. Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards

Particular information pertaining specific risk for human / environment	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Also after use, do not open with force or burn. Do not spray on a naked flame or any other incandescent material. Keep away from sources of ignition – No smoking. Keep away from children. None known.
Indication of danger	None known.
Hazard precautions	None known.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
Kohlenwasserstoffe, C9, Aromaten	EC-No. : 918-668-5 REACH No. : 01-2119455851-35	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 STOT SE 3; H335 H336	10.0 – 25.0 %
and isobutane	CAS No. : 75-28-5 EC-No. : 200-857-2 Index-No. : 601-004-00-0 REACH No. : 01-2119485395-27	Flam. Gas 1; H220 Compr. Gas; H280	10.0 – 25.0 %
Kohlenwasserstoffe, C7-C9, n-Alkane, Isoalkane, Cycloalkane	EC-No. : 920-750-0 REACH No. : 01-2119473851-33	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 STOT SE 3; H336	10.0 – 25.0 %
propane	CAS No. : 74-98-6 EC-No. : 200-827-9 Index-No. : 601-003-00-5 REACH No. : 01-2119486944-21	Flam. Gas 1; H220 Press. Gas; H280	2.5 – 10.0 %

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Ingredient		Classification (EC) 1272/2008	Concentration
butane	CAS No. : 106-97-8 EC-No. : 203-448-7 Index-No. : 601-004-00-0 REACH No. : 01-2119474691-32	Flam. Gas 1; H220 Press. Gas; H220	2.5 - 10.0 %
methanol	CAS No. : 67-56-1 EC-No. : 200-659-6 Index-No. : 603-001-00-X	Flam. Liq. 2; H225 Acute Tox. 3 ; H331 Acute Tox. 3 ; H311 Acute Tox. 3 ; H301 STOT SE 1; H370	< 2.5 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	If symptoms persist, call a physician. Take off all contaminated clothing immediately. 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. If unconscious place in recovery position and seek medical advice.
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.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2)
Dry powder
Foam
Water spray jet

Extinguishing media which must not be used for safety reasons High volume water jet

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation Container may rupture on heating.
Heating or fire can release toxic gas.
May form explosive mixtures in air.

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tion itself, its combustion products, or released gases

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.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation, especially in confined areas.
Keep away from sources of ignition – No smoking.
Keep people away from and upwind of spill/leak.

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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Ensure adequate ventilation.

6.4 Reference to other sections

Reference to other sections

See chapter 8/13

6.5 Additional information

Other information

Treat recovered material as described in the section "Disposal considerations".
Dispose of in accordance with local regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Handle and open container with care.
Provide sufficient air exchange and/or exhaust in work rooms.
Vapours are heavier than air and may spread along floors.
BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

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Advice on protection against fire and explosion Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Take precautionary measures against static discharges. Do not spray on a naked flame or any other incandescent material. In use, may form flammable/explosive vapour-air mixture. Keep away from sources of ignition – No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements Keep containers tightly closed in a cool, well-ventilated place. Container may rupture on heating. Store in accordance with local regulations.

TRGS 510

2B Aerosols

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Butano

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Remarks	Source
600	1450	750	1810	*1)	19

*1): Capable of causing cancer and/or heritable genetic damage. (only applies if Butane contains more than 0.1% of buta-1,3-diene)
Source : 19 – EH40/2005 Workplace exposure limits (2011)

METHANOL

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Remarks	Source
200	266	250	333	Can be absorbed through the skin.	19

Source : 19 – EH40/2005 Workplace exposure limits (2011)

Europe

Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Note	Issuing date	Source
260	200	Skin	2006/15	24

Source : 24 – DIRECTIVE 2009/161/EU

8.2 Exposure controls

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Hand protection Wear protective gloves.

Suitable material : butyl-rubber, Chloroprene, Nitrile rubber

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Unsuitable material : PVC disposable gloves

Material thickness : $\geq 0,5$ mm

Break through time : >120 min

Remarks : Replace when worn. 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.
Take off all contaminated clothing immediately.
Do not breathe vapors, mist or gas.
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.

Engineering measures Ensure adequate ventilation, especially in confined areas.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Aerosol
Colour	black
Odour	solvent
Odour threshold	not determined
pH	not determined
Melting point [°C] / Freezing point [°C]	not determined
Boiling point [°C]	not applicable (Aerosol)
Flash point [°C]	not applicable (aerosol)
Evaporation rate [kg/(s*m ²)]	No data available
Flammability (solid, gas)	No data available

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Explosion limits [Vol-%]

Lower limit : not determined

Upper limit : not determined

Vapour pressure [kPa] not determined

Density [g/cm³] 0,77

Temperature : 20 °C

Relative density not determined

Water solubility [g/l] insoluble

Solubility [g/l] No data available

Partition coefficient n-octanol /
water (log P O/W) not determined

Autoignition temperature [°C] not determined

Autoinflammability not auto-flammable

Decomposition temperature [°C] not determined

Viscosity, dynamic [kg/(m*s)] not determined

Risk of explosion. In use, may form flammable/explosive vapour-air mixture.

Oxidising properties No data available

9.2 Other information

Ignition temperature [°C] > 200

Relative vapour density (air=1) not determined

Solvent content [%] 57,6 organic solvent

SECTION 10: Stability and reactivity

10.1 Reactivity

Thermal decomposition No decomposition if stored and applied as directed.

10.2 Chemical stability

Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions None under normal processing.

10.4 Conditions to avoid

Conditions to avoid Container may rupture on heating.
No decomposition if used as directed.

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10.5 Incompatible materials

Materials to avoid No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

Hazardous decomposition products Carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

Kohlenwasserstoffe, C9, Aromaten

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 2000	LD50	rat	100

Source : 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 2000	LD50	rat	100

Source : 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
> 6193	LC50	rat	4 h	100

Source : 100 - Company data

ISOBUTANE

Oral toxicity [mg/kg]	Source
No data available	100

Source : 100 - Company data

Dermal toxicity [mg/kg]	Source
No data available	100

Source : 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
> 50	LC50	rat	4 h	100

Source : 100 - Company data

Kohlenwasserstoffe, C7-C9, n-Alkane, Isoalkane, Cycloalkane

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 5000	LD50	rat	100

Source : 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 2800	LD50	rabbit	100

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Source : 100 – Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
> 23,3	LC50	rat	4 h	100

Source : 100 – Company data

propane

Oral toxicity [mg/kg]	Source
No data available	100

Source : 100 – Company data

Dermal toxicity [mg/kg]	Source
No data available	100

Source : 100 – Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
20	LC50	rat	4 h	100

Source : 100 – Company data

Butano

Oral toxicity [mg/kg]	Source
No data available	100

Source : 100 – Company data

Dermal toxicity [mg/kg]	Source
No data available	100

Source : 100 – Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
658	LC50	rat	4 h	100

Source : 100 – Company data

METHANOL

Oral toxicity [mg/kg]	Test criterion	Test species	Source
5628	LD50	rat	100

Source : 100 – Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
15800	LD50	rabbit	100

Source : 100 – Company data

11.2 Additional information

Other information (chapter 11.) The product itself has not been tested.

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SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

Kohlenwasserstoffe, C9, Aromaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Source
1 - 10	LC50	Daphnia magna (Water flea)	100

Source : 100 - Company data

ISOBUTANE

Toxicity to fish [mg/l]	Source
27,98	100

Source : 100 - Company data

Toxicity to daphnia [mg/l]	Source
14,22	100

Source : 100 - Company data

Toxicity to algae [mg/l]	Source
7,71	100

Source : 100 - Company data

Ready degradability

Kohlenwasserstoffe, C7-C9, n-Alkane, Isoalkane, Cycloalkane

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
3	EC50	Daphnia magna (Big water flea).	48 h	100

Source : 100 - Company data

propane

Toxicity to fish [mg/l]	Test criterion	Exposure duration	Source
> 1000	LC50	96 h	100

Source : 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
14,22	LC50	Daphnia magna (Big water flea).	48 h	100

Source : 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
7,71	EC50	Scenedesmus quadricauda (Green algae)	96 h	100

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Source : 100 – Company data

Ready degradability

Butano

Toxicity to fish [mg/l]	Source
No data available	100

Source : 100 – Company data

Toxicity to daphnia [mg/l]	Source
No data available	100

Source : 100 – Company data

Toxicity to algae [mg/l]	Source
No data available	100

Source : 100 – Company data

12.6 Other adverse effects

Further information on ecology The product itself has not been tested.







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.
Do not flush into surface water or sanitary sewer system.

Waste Code 160504 – gases in pressure containers (including halons) containing dangerous substances
150104 – metallic packaging

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1950	1950	1950
14.2 Description of the goods	AEROSOLS	AEROSOLS	
14.2 UN proper shipping name		AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2	2.1	2.1
14.5 Environmental hazards	Dangerous for the environment	Dangerous for the environment	Dangerous for the environment
Remarks	inflammable	(maximum 1 L) flammable	
Labels	2.1,U  	2.1,U  	2.1,U  
Category	2		
Classification Code	5F		
Tunnel restriction code	D		

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
Name affix	mixture	mixture	mixture
Danger releasing substance		Naphtha (petroleum), hydrotreated light	
EmS		F-D;S-U	
Stowage category		A	

14.6 Special precautions for user

Precautions not required under normal use

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

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

VOC 443,2 g/l
57,60 %

Water hazard class (self-classification) 2

Classification in compliance with the Industrial Safety Regulation Extremely flammable

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

Relevant H-phrases

- H220: Extremely flammable gas.
- H222: Extremely flammable aerosol.
- H225: Highly flammable liquid and vapour.
- H226: Flammable liquid and vapour.
- H229: Pressurised container: May burst if heated.
- H280: Contains gas under pressure; may explode if heated.
- H301: Toxic if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H311: Toxic in contact with skin.
- H331: Toxic if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H370: Causes damage to organs .
- H411: Toxic to aquatic life with long lasting effects.

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Wording of the hazard classes

EUH066: Repeated exposure may cause skin dryness or cracking.

Flam. Aerosol: Flammable aerosol
STOT SE: Specific target organ toxicity – single exposure
Asp. Tox.: Aspiration hazard
Aquatic Chronic: Hazardous to the aquatic environment
Flam. Liq.: Flammable liquid
Flam. Gas: Flammable gas
Press. Gas: Gases under pressure
Acute Tox.: Acute toxicity

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	Evaluation
Flam. Aerosol 1; H222 H229	Experimental data
STOT SE 3; H336	Calculated
Asp. Tox. 1; H304	Calculated
Aquatic Chronic 2; H411	Calculated
Flam. Aerosol 1; H229	Calculated

Recommended restrictions

None under normal processing. Observe technical data sheet.

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.