

GHS Safety Data Sheet



Commercial Product Name: FTC-ZS Zinc Spray

Revision Date: 03.05.2018

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

1.1 Product identifier

Commercial Product Name FTC-ZS Zinc Spray

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-Str. 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 AnchorMark Pty. Ltd.
Unit 1, 61 Waterview Close
Dandenong South VIC 3175, Australia
Telephone: +61 (0) 3 97992096
FAX: +61 (0) 3 97992696
Email: info@anchormark.com.au

1.4 Emergency telephone number

Emergency telephone number FOR FIRST AID ADVICE CALL A POISONS INFORMATION CENTRE PHONE 13 11 26
THIS NUMBER IS FOR USE IN AUSTRALIA ONLY

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS- Classification Flam. Aerosol 1; H222 H229 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 Aquatic Chronic 2; H411

2.2 Label elements

Hazard pictogram



GHS02



GHS07



GHS08



GHS09

Signal word Danger

Hazardous component(s) to be indicated on label Xylene, Acetone; Hydrocarbons, C9, aromatics

H-statement(s) H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H373: May cause damage to organs through prolonged or repeated exposure .
H411: Toxic to aquatic life with long lasting effects.

P-statement(s) 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

2.3 Other hazards

Particular information pertaining specific risk for human / environment None known.

Indication of danger None known.

Hazard precautions None known.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

Ingredient	CAS No.	GHS classification	Concentration
acetone	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	10.0 - 25.0 %
xylene	1330-20-7	Flam. Liq. 3; H226 Acute Tox. 4 ; H332 Acute Tox. 4 ; H312 Skin Irrit. 2; H315	10.0 - 25.0 %
Zinc powder - (stabilised)	7440-66-6	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	10.0 - 25.0 %
propane	74-98-6	Flam. Gas 1; H220 Press. Gas; H280	10.0 - 25.0 %
isobutane	75-28-5	Flam. Gas 1; H220 Press. Gas; H280	10.0 - 25.0 %
Hydrocarbons, C9, aromatics	-	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 STOT SE 3; H335 H336	2.5 - 10.0 %
butane	106-97-8	Flam. Gas 1; H220 Press. Gas; H220	2.5 - 10.0 %
ethylbenzene	100-41-4	Flam. Liq. 2; H225 Acute Tox. 4 ; H332	< 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
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO2) 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	Container may rupture on heating. Heating or fire can release toxic gas. May form explosive mixtures in air.
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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.
- 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.
- 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.

SECTION 8: Exposure controls/personal protection

Ingredients with occupational exposure limits to be monitored

acetone, propan-2-one, propanone

Australia

Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Source
1000	2375	500	1185	WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013

xylene, mixed isomers, pure

Australia

Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Source
150	655	80	350	WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013

Butane

Australia

Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Source
800	1900	WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013

ETHYLBENZENE

Australia

Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Source
125	543	100	434	WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Hand protection Wear protective gloves.

Suitable material: butyl-rubber, Chloroprene, Nitrile rubber

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	grey
Odour	acetone-like
Odour threshold	not determined
pH	not determined
Melting point [°C] /	not determined
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
Explosion limits [Vol-%]	
<i>Lower limit:</i>	not determined
<i>Upper limit:</i>	not determined
Vapour pressure [kPa]	not determined
Density [g/cm³]	0.73
<i>Temperature:</i>	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

Miscibility with water immiscible

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.

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

acetone, propan-2-one, propanone

Oral toxicity [mg/kg]	Test criterion	Test species
> 5800	LD50	rat

Dermal toxicity [mg/kg]	Test criterion	Test species
> 20000	LD50	rabbit

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

xylene, mixed isomers, pure

Oral toxicity [mg/kg]	Test criterion	Test species
3523	LD50	rat

Dermal toxicity [mg/kg]	Test criterion	Test species
2000	LD50	Rabbit.

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration
21,7	LC50	rat	4 h

propane

Oral toxicity [mg/kg]
No data available

Dermal toxicity [mg/kg]
No data available

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

ISOBUTANE

Oral toxicity [mg/kg]

No data available

Dermal toxicity [mg/kg]

No data available

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

Hydrocarbons, C9, aromatics

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

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

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

Butane

Oral toxicity [mg/kg]

No data available

Dermal toxicity [mg/kg]

No data available

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

ETHYLBENZENE

Oral toxicity [mg/kg]	Test criterion	Test species
3500	LD50	rat

Dermal toxicity [mg/kg]	Test criterion	Test species
17800	LD50	rat

Inhalative toxicity [mg/l]	Test criterion	Test species
1432	LC50	rat

11.2 Additional information

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

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

acetone, propan-2-one, propanone

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration
6210	LC50	Pimephales promelas (Pimephales promelas (fathead minnow))	96 h

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration
8800	EC50	Daphnia magna (Big water flea).	48 h

xylene, mixed isomers, pure

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration
2,6	LC50	Salmo gairdneri	96 h
Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration
165	EC50	Daphnia magna (Big water flea).	48 h
Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration
2,2	EC50	Selenastrum capricornutum	73 h

propane

Toxicity to fish [mg/l]	Test criterion	Exposure duration	
> 1000	LC50	96 h	
Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration
14,22	LC50	Daphnia magna (Big water flea).	48 h
Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration
7,71	EC50	Scenedesmus quadricauda (Green algae)	96 h

ISOBUTANE

Toxicity to fish [mg/l]	Test criterion	Exposure duration	
27,98	LC50	96 h	
Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration
14,22	LC50	Daphnia magna (Big water flea).	48 h
Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration
7,71	EC50	Scenedesmus quadricauda (Green algae)	96 h

Hydrocarbons, C9, aromatics

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

Butane

Toxicity to fish [mg/l]
No data available

Toxicity to daphnia [mg/l]
No data available

Toxicity to algae [mg/l]
No data available

ETHYLBENZENE

Toxicity to fish [mg/l]	Test criterion	Exposure duration	
5,1	LC50	96 h	
Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration
> 1,8	LC50	Daphnia magna (Big water flea).	48 h
Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration
7,7	EC50	Skeletonema costatum	96 h
NOEC (daphnia) [mg/l]	Test criterion	Test species	Exposure duration
1	NOEC	Daphnia magna (Big water flea).	7 d

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.

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	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			
Category	2		
Classification Code	5F		
Tunnel restriction code	D		
Danger releasing substance			
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 MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code not applicable

SECTION 15: Regulatory information

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

Water hazard class (self-classification) 2

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.
- H304: May be fatal if swallowed and enters airways.
- H312: Harmful in contact with skin.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H335: May cause respiratory 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.

Wording of the hazard classes

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

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