

# GHS Safety Data Sheet



Commercial Product Name: FTC-ZA Zinc-Alu Spray

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

### **1.1 Product identifier**

Commercial Product Name            FTC-ZA Zinc-Alu Spray

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

Relevant identified uses            lacquer

### **1.3 Details of the supplier of the safety data sheet**

Company designation                fischerwerke GmbH & Co. KG  
Weinhalde 14-18  
D-72178 Waldachtal  
Telephone: +49(0)7443 12-0  
FAX:            +49(0)7443 12-4222  
Email:        info-sdb@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**

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

### **2.2 Label elements**

#### **Hazard pictogram**



GHS02



GHS07



GHS09

**\*Signal word**

Danger

**Hazardous component(s) to be indicated on label**

acetone, Hydrocarbons, C9, aromatics; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane

**\*H-statement(s)**

H222: Extremely flammable aerosol.

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

H229: Pressurised container: May burst if heated.

**\*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: 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.

**Additional Information**

Contains 2-butanone oxime. May produce allergic reactions.  
HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

**SECTION 3: Composition/information on ingredients**

**Hazardous ingredients**

Ingredient	CAS No.	GHS Classification	Concentration
xylene	1330-20-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Asp. Tox. 1; H304	10.0 - 20.0 %
acetone	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	20.0 - 25.0 %
isobutane	75-28-5	Flam. Gas 1; H220 Press. Gas; H280	10.0 - 20.0 %
dimethyl ether	115-10-6	Flam. Gas 1; H220 Press. Gas; H280	10.0 - 20.0 %
butane	106-97-8	Flam. Gas 1; H220 Press. Gas; H220	2.5 - 10.0 %
propane	74-98-6	Flam. Gas 1; H220 Press. Gas; H220	2.5 - 10.0 %
Hydrocarbons, C9, aromatics	-	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	2.5 - 10.0 %
zinc powder - zinc dust (pyrophoric)	7440-66-6	Water-react. 1; H260 Pyr. Sol. 1; H250 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	2.5 - 10.0 %
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	-	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5 - 10.0 %
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane	-	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5 - 10.0 %
aluminium powder (stabilised)	7429-90-5	Water-react. 2; H261 Flam. Sol. 1; H228	2.5 - 10.0 %
2-butanone oxime	96-29-7	Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1, H317	0,1 – 1 %

## **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.

### **4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms** No data available

### **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 (CO<sub>2</sub>)  
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 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.

### **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**

xylene, mixed isomers, pure

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

acetone, propan-2-one, propanone

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

aluminium powder (stabilised)

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Source
10	500	WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013

Butane

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

<b>Respiratory protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>Hand protection</b>	Wear protective gloves.
<i>Suitable material:</i>	butyl-rubber, Chloroprene, Nitrile rubber
<i>Unsuitable material:</i>	PVC disposable gloves
<i>Material thickness:</i>	>= 0,5 mm
<i>Break through time:</i>	>120 min
<i>Remarks:</i>	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).
<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Wear suitable protective equipment.
<i>Note:</i>	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
<b>General protective and hygiene measures</b>	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.
<b>Information on environmental protection regulations</b>	No special environmental precautions required.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

<b>Form</b>	aerosol
<b>Colour</b>	silver
<b>Odour</b>	solvent-like
<b>Odour threshold</b>	not determined
<b>pH</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Boiling point [°C]</b>	not applicable (Aerosol)
<b>Flash point [°C]</b>	not applicable (aerosol)
<b>Evaporation rate [kg/(s*m<sup>2</sup>)]</b>	No data available
<b>Flammability</b>	No data available
<b>Explosion limits [Vol-% ]</b>	
	<i>Lower limit:</i> not determined
	<i>Upper limit:</i> not determined
<b>Vapour pressure [kPa]</b>	not determined
<b>Density [g/cm<sup>3</sup>]</b>	0,73
	<i>Temperature:</i> 20 °C
<b>Relative density</b>	not determined
<b>Water solubility [g/l]</b>	insoluble
<b>Solubility [g/l]</b>	No data available
<b>Partition coefficient n-</b>	not determined

octanol /water (log P  
O/W)

Autoignition temperature not determined  
[°C]

Autoinflammability not auto-flammable

Decomposition not determined  
temperature [°C]

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

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

Oxidation No data available

## 9.2 Other information

Melting range [°C] not determined

Ignition temperature [°C] > 200

Relative vapour density (air=1) not determined

Miscibility with water immiscible

Solvent content [%] 88,5 %

## 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

#### ISOBUTANE

Inhalative toxicity [mg/l]	Test criterion	Duration of dosage	Test species
> 50	LC50	4 h	rat

#### dimethyl ether

Inhalative toxicity [mg/l]	Test criterion	Duration of dosage	Test species
309	LC50	4 h	rat

#### propane

Inhalative toxicity [mg/l]	Test criterion	Duration of dosage	Test species
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513	LC50	4 h	rat
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**Irritant effect on skin** No skin irritation  
**Irritant effect on eyes** irritant effects  
**Sensitization** No sensitization responses were observed.

## 11.2 Additional information

**Other information (chapter 11.)** irritating  
High concentration of vapours may induce unconsciousness.  
The product itself has not been tested.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Hazardous ingredients

##### dimethyl ether

Toxicity to fish [mg/l]	Test criterion	Duration of dosage
> 1000	LC50	96 h

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration
> 4400	LC50	Daphnia magna (Water flea)	48 h

##### propane

Toxicity to fish [mg/l]	Test criterion	Duration of dosage
> 1000	LC50	96 h

##### zinc powder-zinc dust (pyrophoric)

Toxicity to fish [mg/l]	Test criterion	Duration of dosage
2,01	LC50	96 h

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration
1,33	EC50	Daphnia magna (Water flea)	48 h

Toxicity to algae [mg/l]	Test criterion	Exposure duration
0,713	EC50	72 h

### 12.2 Persistence and degradability

**Elimination and distribution mechanisms** No information available.

**Elimination in purification plant** No data available

**Biodegradability** No data available

### 12.3 Bioaccumulative potential

**Bioaccumulation** no data available

**Bioconcentration factor (BCF)** No data available

### 12.4 Mobility in soil

**Distribution in the environment** No data available

#### Mobility

*Mobility:* No data available

### 12.5 Other adverse effects

**Further information on ecology** The product should not be allowed to enter drains, water courses or the soil.  
Toxic effects on fish and plankton



Toxic to aquatic life.  
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.  
The product should not be allowed to enter drains, water courses or the soil.

## **SECTION 14: Transport information**

	<b>Land transport ADR/RID</b>	<b>Marine transport IMDG</b>	<b>Air transport ICAO/IATA</b>
<b>UN-No</b>	1950	1950	1950
<b>Class</b>	2	2.1	2.1
<b>Description of the goods</b>	AEROSOLS	AEROSOLS	Aerosols, flammable
<b>Proper shipping name</b>		AEROSOLS	Aerosols, flammable
<b>Remarks</b>	flammable	(maximum 1 L) flammable	
<b>Labels</b>	2.1,U 	2.1,U 	2.1,U 
<b>Category</b>	2		
<b>Classification Code</b>	5F		
<b>Tunnel restriction code</b>	D		
<b>Environmental hazards</b>	Dangerous for the environment	Dangerous for the environment	Dangerous for the environment
<b>EmS</b>		F-D;S-U	
<b>Stowage category</b>		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**

**Additional information** HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

## **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.  
H228: Flammable solid.

H229: Pressurised container: May burst if heated.  
H250: Catches fire spontaneously if exposed to air.  
H260: In contact with water releases flammable gases which may ignite spontaneously.  
H261: In contact with water releases flammable gases.  
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.  
H336: May cause drowsiness or dizziness.  
H340: May cause genetic defects .  
H350: May cause cancer .  
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**

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. Aerosol: Flammable aerosol  
Flam. Liq.: Flammable liquid  
Acute Tox.: Acute toxicity  
Asp. Tox.: Aspiration hazard  
Carc.: Carcinogenicity  
Muta.: Germ cell mutagenicity  
Flam. Gas: Flammable gas  
Press. Gas: Gases under pressure  
Water-react.: Substance or mixture which in contact with water emits flammable gas  
Pyr. Sol.: Pyrophoric solid  
Aquatic Acute: Hazardous to the aquatic environment  
Flam. Sol.: Flammable solid

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.