

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

**1.1. Product identifier**

Product form : Mixture  
Trade name : FTC-ZA ZINCALUSPRAY  
UFI : JV60-N0YU-K006-RP1H  
Article number : 00509241  
Vaporizer : Aerosol

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

**Relevant identified uses**

Use of the substance/mixture : Lacquer  
Use of the substance/mixture : Corrosion inhibitor

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

**Manufacturer**

fischerwerke GmbH & Co. KG  
Klaus-Fischer-Straße 1  
72178 Waldachtal  
Germany  
T +49(0)7443 12-0, F +49(0)7443 12-4222  
[info-sdb@fischer.de](mailto:info-sdb@fischer.de), [www.fischer.de](http://www.fischer.de)

**Distributor**

fischer fixings UK Ltd.  
Whitely Road  
Oxon OX10 9AT Wallingford  
United Kingdom of Great Britain and Northern Ireland  
T +44 14 91 82 79 00, F +44 14 91 82 79 53  
[info@fischer.co.uk](mailto:info@fischer.co.uk), [www.fischer.co.uk](http://www.fischer.co.uk)

**1.4. Emergency telephone number**

Emergency 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 [CLP]**

Aerosol 1	H222;H229
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

Full text of hazard classes, H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

GHS09

Signal word (CLP) :

Danger

Contains :

acetone; propan-2-one; propanone; xylene; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C9, aromatics

Hazard statements (CLP) :

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.

Precautionary statements (CLP) :

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

P210 - Keep away from sparks, heat, hot surfaces, open flames. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Do not pierce or burn, even after use.  
P260 - Do not breathe vapours, spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection/face protection, protective gloves.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P391 - Collect spillage.  
P405 - Store locked up.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501 - Dispose of contents/container to a hazardous or special waste collection point.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Hydrocarbons, C9, aromatics
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Hydrocarbons, C9, aromatics

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Hydrocarbons, C9, aromatics

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone; propan-2-one; propanone	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no: 01-2119471330-49	$\geq 20 - < 25$	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
dimethyl ether	CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8 REACH-no: 01-2119472128-37	$\geq 10 - < 20$	Flam. Gas 1, H220 Press. Gas (Liq.), H280
xylene	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32	$\geq 10 - < 20$	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propane	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944-21	≥ 10 – < 20	Flam. Gas 1, H220 Press. Gas (Comp.), H280
isobutane	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395-27	≥ 5 – < 10	Flam. Gas 1, H220 Press. Gas (Comp.), H280
butane	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119752523-40	≥ 5 – < 10	Flam. Gas 1, H220 Press. Gas (Comp.), H280
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC-No.: 921-024-6 REACH-no: 01-2119475514-35	≥ 5 – < 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	CAS-No.: 64742-49-0 EC-No.: 927-510-4 REACH-no: 01-2119475515-33	≥ 5 – < 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C9, aromatics	EC-No.: 918-668-5	≥ 5 – < 10	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
aluminium powder (stabilised)	CAS-No.: 7429-90-5 EC-No.: 231-072-3 EC Index-No.: 013-002-00-1 REACH-no: 01-2119529243-45	≥ 2.5 – < 5	Not classified
ethylbenzene	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370-35	≥ 1 – < 2.5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) STOT RE 2, H373 Asp. Tox. 1, H304
zinc powder— zinc dust (stabilised)	CAS-No.: 7440-66-6 EC-No.: 231-175-3 EC Index-No.: 030-001-01-9 REACH-no: 01-2119467174-37	≥ 1 – < 2.5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water and soap. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Wash out mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol.
Explosion hazard	: Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 7.3. Specific end use(s)

PU installation foams.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

##### acetone; propan-2-one; propanone (67-64-1)

#### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Acetone
IOEL TWA	1210 mg/m <sup>3</sup> 500 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

#### United Kingdom - Occupational Exposure Limits

Local name	Acetone
WEL TWA (OEL TWA)	1210 mg/m <sup>3</sup> 500 ppm
WEL STEL (OEL STEL)	3620 mg/m <sup>3</sup> 1500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

##### dimethyl ether (115-10-6)

#### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Dimethylether
IOEL TWA	1920 mg/m <sup>3</sup> 1000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

#### United Kingdom - Occupational Exposure Limits

Local name	Dimethyl ether
WEL TWA (OEL TWA)	766 mg/m <sup>3</sup> 400 ppm
WEL STEL (OEL STEL)	958 mg/m <sup>3</sup> 500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

##### xylene (1330-20-7)

#### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m <sup>3</sup> 50 ppm
IOEL STEL	442 mg/m <sup>3</sup> 100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

#### United Kingdom - Occupational Exposure Limits

Local name	Xylene
WEL TWA (OEL TWA)	220 mg/m <sup>3</sup> o-,m-,p- or mixed isomers

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>xylene (1330-20-7)</b>	
	50 ppm o-,m-,p- or mixed isomers
WEL STEL (OEL STEL)	441 mg/m <sup>3</sup> o-,m-,p- or mixed isomers
	100 ppm o-,m-,p- or mixed isomers
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>United Kingdom - Biological limit values</b>	
Local name	Xylene, o-, m-, p- or mixed isomers
BMGV	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

<b>ethylbenzene (100-41-4)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Ethylbenzene
IOEL TWA	442 mg/m <sup>3</sup>
	100 ppm
IOEL STEL	884 mg/m <sup>3</sup>
	200 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Ethylbenzene
WEL TWA (OEL TWA)	441 mg/m <sup>3</sup>
	100 ppm
WEL STEL (OEL STEL)	552 mg/m <sup>3</sup>
	125 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Butyl rubber	6 (> 480 minutes)	> 0,7		EN 374-2, EN 374-3
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,7		EN 374-2, EN 374-3

### Respiratory protection

#### Respiratory protection:

In the event of insufficient ventilation: Use self-contained breathing apparatus

Respiratory protection			
Device	Filter type	Condition	Standard
	Type A - High-boiling (>65 °C) organic compounds		EN 140
	Filter AX (brown)		EN 14387

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Silver.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: < 20.5 mm <sup>2</sup> /s
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.73485 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

% of flammable ingredients : 137.5 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

### 10.2. Chemical stability

Stable under normal conditions.

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Strong acids. Oxidizing agent. Strong bases. Water. alcohols. Amines.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### acetone; propan-2-one; propanone (67-64-1)

LD50 oral rat	5800 mg/kg bodyweight
LD50 dermal rabbit	> 7400 mg/kg
LC50 Inhalation - Rat	76 mg/l
LC50 Inhalation - Rat (Vapours)	76 mg/l

#### isobutane (75-28-5)

LC50 Inhalation - Rat	1443 mg/l
-----------------------	-----------

#### dimethyl ether (115-10-6)

LC50 Inhalation - Rat [ppm]	164000 ppm
-----------------------------	------------

#### xylene (1330-20-7)

LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	12126 mg/kg bodyweight
LC50 Inhalation - Rat [ppm]	5922 ppm

#### propane (74-98-6)

LC50 Inhalation - Rat [ppm]	800000 ppm
-----------------------------	------------

#### ethylbenzene (100-41-4)

LD50 oral rat	≈ 3500 mg/kg bodyweight
LD50 dermal rabbit	17.8 ml/kg

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 4 ml/kg
LC50 Inhalation - Rat	> 25.2 mg/l

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)

LD50 oral rat	> 5840 mg/kg
LC50 Inhalation - Rat	> 23.3 mg/l (OECD 403 method)

#### Hydrocarbons, C9, aromatics

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	> 6193 mg/l (OECD 403 method)



# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Hydrocarbons, C9, aromatics</b>	
LC50 Inhalation - Rat (Vapours)	5.16 mg/l
<b>zinc powder— zinc dust (stabilised) (7440-66-6)</b>	
LD50 oral rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 5.41 g/m <sup>3</sup>
<b>aluminium powder (stabilised) (7429-90-5)</b>	
LD50 oral rat	> 15900 mg/kg bodyweight
LC50 Inhalation - Rat	> 0.888 mg/l
Skin corrosion/irritation	: Causes skin irritation.
<b>acetone; propan-2-one; propanone (67-64-1)</b>	
pH	5 Source: ECHA
Serious eye damage/irritation	: Causes serious eye irritation.
<b>acetone; propan-2-one; propanone (67-64-1)</b>	
pH	5 Source: ECHA
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
<b>xylene (1330-20-7)</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
<b>acetone; propan-2-one; propanone (67-64-1)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>xylene (1330-20-7)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Hydrocarbons, C9, aromatics</b>	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
<b>isobutane (75-28-5)</b>	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight
<b>xylene (1330-20-7)</b>	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight (OECD 408 method)
STOT-repeated exposure	May cause damage to organs (respiratory system) through prolonged or repeated exposure.
<b>ethylbenzene (100-41-4)</b>	
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight (OECD 407 method)
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)</b>	
LOAEC (inhalation, rat, vapour, 90 days)	16.6 mg/l
NOAEC (inhalation, rat, vapour, 90 days)	3.3 mg/l air

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Hydrocarbons, C9, aromatics</b>	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
<b>zinc powder— zinc dust (stabilised) (7440-66-6)</b>	
LOAEL (oral, rat, 90 days)	53.8 mg/kg bodyweight
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight
<b>aluminium powder (stabilised) (7429-90-5)</b>	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.05 mg/l air
NOAEL (subchronic, oral, animal/male, 90 days)	1034 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	1087 mg/kg bodyweight
Aspiration hazard	: May be fatal if swallowed and enters airways.
<b>FTC-ZA ZINCALUSPRAY</b>	
Vaporizer	Aerosol
Viscosity, kinematic	< 20.5 mm <sup>2</sup> /s
<b>isobutane (75-28-5)</b>	
Viscosity, kinematic	0 mm <sup>2</sup> /s
<b>xylene (1330-20-7)</b>	
Viscosity, kinematic	0.74 mm <sup>2</sup> /s
<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	
Viscosity, kinematic	0.7 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'
<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)</b>	
Viscosity, kinematic	0.67 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'
<b>Hydrocarbons, C9, aromatics</b>	
Viscosity, kinematic	< 1 mm <sup>2</sup> /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

<b>acetone; propan-2-one; propanone (67-64-1)</b>	
LC50 - Fish [1]	5540 mg/l
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>isobutane (75-28-5)</b>	
LC50 - Fish [1]	312.69 mg/l Brachydanio rerio (zebra-fish)
LC50 - Fish [2]	447000 mg/l
EC50 - Crustacea [1]	7417 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	3855891 mg/l Desmodesmus subspicatus
EC50 96h - Algae [1]	25761.03 mg/l
<b>dimethyl ether (115-10-6)</b>	
LC50 - Fish [1]	> 4.1 g/l Poecilia reticulata (Guppy)
EC50 - Crustacea [1]	> 4.4 g/l Daphnia magna (Water flea)

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>dimethyl ether (115-10-6)</b>	
EC50 96h - Algae [1]	154917 mg/l
<b>xylene (1330-20-7)</b>	
LC50 - Fish [1]	2.6 mg/l
EC50 - Crustacea [1]	> 3.4 mg/l Ceriodaphnia dubia
EC50 72h - Algae [1]	2.2 mg/l Selenastrum capricornutum (OECD 201 method)
LOEC (chronic)	3.16 mg/l Daphnia magna (Water flea)
NOEC chronic fish	≈ 1.3 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic crustacea	0.96 mg/l Daphnia magna (Water flea)
NOEC chronic algae	0.44 mg/l Pseudokirchneriella subcapitata
<b>propane (74-98-6)</b>	
LC50 - Fish [1]	> 100 mg/l
<b>ethylbenzene (100-41-4)</b>	
LC50 - Fish [1]	5.1 mg/l
EC50 - Crustacea [1]	1.8 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	5.4 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	4.9 mg/l Skeletonema costatum (marine diatom)
EC50 96h - Algae [1]	3.6 mg/l Pseudokirchneriella subcapitata
EC50 96h - Algae [2]	7.7 mg/l Skeletonema costatum (marine diatom)
LOEC (chronic)	1.7 mg/l Ceriodaphnia dubia
<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	
LOEC (chronic)	0.32 mg/l
NOEC (chronic)	0.17 mg/l
<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)</b>	
LC50 - Fish [1]	> 13.4 mg/l Oncorhynchus mykiss (Rainbow trout)
LOEC (chronic)	0.32 mg/l
NOEC (chronic)	0.17 mg/l
<b>Hydrocarbons, C9, aromatics</b>	
LC50 - Fish [1]	9.2 mg/l (OECD 203 method)
EC50 - Crustacea [1]	3.2 mg/l (OECD 202 method)
EC50 72h - Algae [1]	2.6 mg/l Pseudokirchneriella subcapitata (OECD 201 method)
<b>zinc powder— zinc dust (stabilised) (7440-66-6)</b>	
LC50 - Fish [1]	0.169 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	0.413 mg/l Ceriodaphnia dubia
EC50 72h - Algae [1]	0.136 mg/l Pseudokirchneriella subcapitata
<b>aluminium powder (stabilised) (7429-90-5)</b>	
EC50 72h - Algae [1]	1.05 mg/l
EC50 72h - Algae [2]	0.2 mg/l

## 12.2. Persistence and degradability

<b>FTC-ZA ZINCALUSPRAY</b>	
Persistence and degradability	Not rapidly degradable
<b>acetone; propan-2-one; propanone (67-64-1)</b>	
Persistence and degradability	Not rapidly degradable

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>isobutane (75-28-5)</b>	
Persistence and degradability	Not rapidly degradable
<b>dimethyl ether (115-10-6)</b>	
Persistence and degradability	Not rapidly degradable
<b>xylene (1330-20-7)</b>	
Persistence and degradability	Rapidly degradable
<b>propane (74-98-6)</b>	
Persistence and degradability	Not rapidly degradable
<b>butane (106-97-8)</b>	
Persistence and degradability	Not rapidly degradable
<b>ethylbenzene (100-41-4)</b>	
Persistence and degradability	Rapidly degradable
<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>	
Persistence and degradability	Not rapidly degradable
<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)</b>	
Persistence and degradability	Not rapidly degradable
<b>Hydrocarbons, C9, aromatics</b>	
Persistence and degradability	Rapidly degradable
<b>zinc powder— zinc dust (stabilised) (7440-66-6)</b>	
Persistence and degradability	Not rapidly degradable
<b>aluminium powder (stabilised) (7429-90-5)</b>	
Persistence and degradability	Not rapidly degradable

### 12.3. Bioaccumulative potential

<b>acetone; propan-2-one; propanone (67-64-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.24 Source: ICSC
<b>isobutane (75-28-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.76
<b>dimethyl ether (115-10-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.1
<b>xylene (1330-20-7)</b>	
Bioconcentration factor (BCF REACH)	25.9
Partition coefficient n-octanol/water (Log Pow)	3.2
<b>propane (74-98-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.36
<b>Hydrocarbons, C9, aromatics</b>	
Partition coefficient n-octanol/water (Log Pow)	2.1 – 6 Source: IUCLID

### 12.4. Mobility in soil

<b>dimethyl ether (115-10-6)</b>	
Mobility in soil	27

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Hydrocarbons, C9, aromatics
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Hydrocarbons, C9, aromatics

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available




## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Discharging into rivers and drains is forbidden.
Additional information	: Special waste.
European List of Waste (LoW, EC 2000/532)	: 16 05 04* - gases in pressure containers (including halons) containing dangerous substances 15 01 04 - metallic packaging

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>		
AEROSOLS	AEROSOLS	Aerosols, flammable
<b>Transport document description</b>		
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1
<b>14.3. Transport hazard class(es)</b>		
2.1 	2.1 	2.1 
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-D EmS-No. (Spillage): S-U	Dangerous for the environment: No
No supplementary information available		

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP200

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Special packing provisions (ADR) : PP87, RR6, L2  
Mixed packing provisions (ADR) : MP9  
Transport category (ADR) : 2  
Special provisions for carriage - Packages (ADR) : V14  
Tunnel restriction code (ADR) : D

### Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959  
Packing instructions (IMDG) : P207, LP200  
Special packing provisions (IMDG) : PP87, L2

### Air transport

PCA packing instructions (IATA) : 203  
PCA max net quantity (IATA) : 75kg  
CAO packing instructions (IATA) : 203  
CAO max net quantity (IATA) : 150kg  
Special provisions (IATA) : A145, A167, A802  
ERG code (IATA) : 10L

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Aluminium powder (7429-90-5).

##### Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

##### Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Acetone		67-64-1	2914 11 00	Category 3		Annex I

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
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.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aerosol 1	H222;H229	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Expert judgement
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 2	H411	Calculation method



# FTC-ZA ZINCALUSPRAY

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

---

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.