

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

Commercial Product Name: **FTC-ZS ZINC 400 ML**

Revision Date: 05.09.2017

Version: 4.1 /en

**fischer**   
innovative solutions

Replaces version from: 31.03.2017

Print date: 05.09.2017

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

### **1.1 Product identifier**

Commercial Product Name **FTC-ZS ZINC 400 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 Aerosol 1; H222 H229 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 STOT RE 2; H373 Aquatic Chronic 2; H411

### **2.2 Label elements**

Hazard pictogram



GHS02



GHS07



GHS08



GHS09

Signal word

Danger

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Hazardous component(s) to be indicated on label xylene , acetone, propan-2-one, propanone, Kohlenwasserstoffe, C9, Aromaten

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.  
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 oC/122oF.  
P501: Dispose of contents/container to special waste treatment

## 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		Classification (EC) 1272/2008	Concentration
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 Press. Gas; H280	10.0 – 25.0 %
xylene	CAS No.: 1330-20-7 EC-No.: 215-535-7 Index-No.: 601-022-00-9 REACH No.: 01-2119488216-32, 02-2119752448-30	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335STOT RE 2; H373 Asp. Tox. 1; H304	10.0 – 25.0 %
acetone, propan-2-one, propanone	CAS No.: 67-64-1 EC-No.: 200-662-2 Index-No.: 606-001-00-8 REACH No.: 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	10.0 – 25.0 %

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Ingredient		Classification (EC) 1272/2008	Concentration
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	10.0 – 25.0 %
zinc powder – zinc dust (stabilised)	CAS No.: 7440-66-6 EC-No.: 231-175-3 Index-No.: 030-002-00-7 030-001-01-9 REACH No.: 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	10.0 – 25.0 %
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	2.5 – 10.0 %
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 %
ethylbenzene	CAS No.: 100-41-4 EC-No.: 202-849-4 Index-No.: 601-023-00-4 REACH No.: 02-2119752523-40	Flam. Liq. 2; H225 Acute Tox. 4 ; H332 STOT RE 2; H373 (hearingorgans) Asp. Tox. 1; H304	< 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 (CO<sub>2</sub>)

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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.

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## 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.

TRGS 510

2B Aerosols

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

xylene, mixed isomers, pure

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Remarks	Source
50	220	100	441	Can be absorbed through the skin.	19

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

Europe

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Note	Issuing date	Source
221	50	442	100	Skin	2000/39	24

Source: 24 – DIRECTIVE 2009/161/EU

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## ACETONE

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Source
500	1210	1500	3620	19

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

Europe

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Issuing date	Source
1 210	500	2000/39	24

Source: 24 - DIRECTIVE 2009/161/EU

## Butano

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	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)

## ETHYLBENZENE

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m <sup>3</sup>	Short-term exposure value / ppm	Short-term exposure value / mg/m <sup>3</sup>	Remarks	Source
100	441	125	552	Can be absorbed through the skin.	19

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

Europe

Long-term exposure value/ mg/m <sup>3</sup>	Long-term exposure value/ ppm	Short-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / ppm	Note	Issuing date	Source
442	100	884	200	Skin	2000/39	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

Unsuitable material:

PVC disposable gloves

Material thickness:

>= 0,5 mm

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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
Form	aerosol
Colour	grey
Odour	acetone-like
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 <sup>2</sup> )]	No data available
Flammability (solid, gas)	No data available
Explosion limits [Vol-%]	
Lower limit:	not determined

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Upper limit:	not determined
Vapour pressure [kPa]	not determined
Density [g/cm <sup>3</sup> ]	0.73
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
Miscibility with water	immiscible
Solvent content [%]	67.7

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Thermal decomposition	No decomposition if stored and applied as directed.
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### 10.2 Chemical stability

Chemical stability	Stable under recommended storage conditions.
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### 10.3 Possibility of hazardous reactions

Hazardous reactions	None under normal processing.
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### 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.
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## 10.6 Hazardous decomposition products

Hazardous decomposition products- Carbon oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Hazardous ingredients

##### 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

##### xylene, mixed isomers, pure

Oral toxicity [mg/kg]	Test criterion	Test species	Source
3523	LD50	rat	100

Source: 100 - Company data

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

Source: 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
21,7	LC50	rat	4 h	100

Source: 100 - Company data

##### ACETONE

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 5800	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 20000	LD50	rabbit	100

Source: 100 - Company data

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Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
76	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

## 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

## 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

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## ETHYLBENZENE

Oral toxicity [mg/kg]	Test criterion	Test species	Source
3500	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
17800	LD50	rat	100

Source: 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Source
1432	LC50	rat	100

Source: 100 - Company data

## 11.2 Additional information

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

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Hazardous ingredients

##### 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

#### xylene, mixed isomers, pure

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
2,6	LC50	Salmo gairdneri	96 h	100

Source: 100 - Company data

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

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Source: 100 – Company data

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
2,2	EC50	Selenastrum capricornutum	73 h	100

Source: 100 – Company data

## ACETONE

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
6210	LC50	Pimephales promelas (fathead minnow)	96 h	100

Source: 100 – Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
8800	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

Source: 100 – Company data

Ready degradability

## 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

## Butano

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

Source: 100 – Company data

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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

## ETHYLBENZENE

Toxicity to fish [mg/l]	Test criterion	Exposure duration	Source
5,1	LC50	96 h	100

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
> 1,8	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
7,7	EC50	Skeletonema costatum	96 h	100

Source: 100 - Company data

NOEC (daphnia) [mg/l]	Test criterion	Test species	Exposure duration	Source
1	NOEC	Daphnia magna (Big water flea)	7 d	100

Source: 100 - Company data

Ready degradability

## 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

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## 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	2.1,U  	2.1,U  	2.1,U  
Category	2		
Classification Code	5F		
Tunnel restriction code	D		
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 not applicable

Annex II of MARPOL and the IBC

Code

## SECTION 15: Regulatory information

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

VOC 66,5 % / 616,0 g/l

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.

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- 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.

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

Classification	Evaluation
Aerosol 1; H222 H229	Experimental data
Skin Irrit. 2; H315	Calculated
Eye Irrit. 2; H319	Calculated
STOT SE 3; H336	Calculated
STOT RE 2; H373	Calculated
Aquatic Chronic 2; H411	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.