

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

Commercial Product Name : FT 6273 SILBER FOLCO AQUAFLEX FT

Article-No. : 15210-066

Revision Date : 19.11.2015

Version : 3.0 /en

**FOLMANN**

Replaces version from : 10.11.2015

Print date : 20.11.2015

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

### 1.1 Product identifier

Commercial Product Name FT 6273 SILBER FOLCO AQUAFLEX FT

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

Relevant identified uses printing ink

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

Address Follmann GmbH & Co. KG  
Postfach 12 63  
D-32372 Minden  
Telephone : +49 (571) 93 39 -0  
FAX : +49 (571) 93 39 -300

Responsible Department Environmental Department +49 (571) 9339-176

E-mail (competent person) sicherheitsdatenblatt@follmann.de

### 1.4 Emergency telephone number

Emergency telephone number Outside USA: -001 703 527 3887 (D813)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 This product is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] The product does not have to be labelled according to Regulation (EC) No. 1272/2008 [CLP].

### \*Further information

EUH208: Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction.

EUH210: Safety data sheet available on request.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixture

Chemical characterization Acrylat

### Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
2-(2-butoxyethoxy)ethanol	CAS No. : 112-34-5 EC-No. : 203-961-6 Index-No. : 603-096-00-8 REACH No. : 01-2119475104-44-xxxx	Eye Irrit. 2; H319	1.0 - 5.0 % by weight
2,4,7,9-Tetramethyldec-5-in-4,7-diol	CAS No. : 126-86-3 EC-No. : 204-809-1 REACH No. : 01-2119954390-39-xxxx	Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	0.1 - 1.0 % by weight

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

Commercial Product Name : FT 6273 SILBER FOLCO AQUAFLEX FT

Article-No. : 15210-066

Revision Date : 19.11.2015

Version : 3.0 /en

**FOLMANN**

Replaces version from : 10.11.2015

Print date : 20.11.2015

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

General advice	Move out of dangerous area. Take off all contaminated clothing immediately. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation occurs, seek medical advice/attention.
In case of eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media	Carbon dioxide (CO <sub>2</sub> ), Foam, Water spray, Dry powder
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	Hazardous decomposition products formed under fire conditions. Exposure to decomposition products may be a hazard to health.
---	--

### **5.3 Advice for firefighters**

Special protective equipment for firefighting	In the event of fire, wear self-contained breathing apparatus.
Additional information on firefighting	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses. The product itself does not burn.

## **SECTION 6: Accidental release measures**

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

Personal precautions	Use personal protective equipment.
----------------------	------------------------------------

### **6.2 Environmental precautions**

Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
---------------------------	--

### **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). Clean contaminated surface thoroughly. Treat recovered material as described in the section "Disposal considerations".
-------------------------	---

### **6.5 Additional information**

Other information	Treat recovered material as described in the section "Disposal considerations".
-------------------	---

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

Commercial Product Name : FT 6273 SILBER FOLCO AQUAFLEX FT

Article-No. : 15210-066

Revision Date : 19.11.2015

Version : 3.0 /en

**FOLMANN**

Replaces version from : 10.11.2015

Print date : 20.11.2015

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling

Handle and open container with care. Avoid contact with skin and eyes.

Precautions

Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Observe label precautions.

Advice on protection against fire and explosion

No special protective measures against fire required.

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

Storage space and container requirements

Keep in properly labelled containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage specifications

Protect from frost.

TRGS 510

12

Recommended storage temperature 5 - 25 °C

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 2-(2-BUTOXYETHOXY)ETHANOL

Europe

Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Short-term exposure value / mg/ m3	Short-term exposure value / ppm	Issuing date	Source
67,5	10	101,2	15	2006/15	24

Source : 24 - DIRECTIVE 2009/161/EU

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
67,5 mg/m <sup>3</sup>	Workers	inhale	Long term effects	100
67,5 mg/m <sup>3</sup>	Workers	inhale	systemic	100
20 mg/kg	Workers	dermal	Long term effects	100
20 mg/m <sup>3</sup>	Workers	dermal	systemic	100
34 mg/m <sup>3</sup>	Consumers	inhale	Long term effects Local effects	100
10 mg/kg	Consumers	dermal	Long term effects systemic	100
1,25 mg/kg	Consumers	Oral	Long term effects systemic	100

Source : 100 - Firmendaten

PNEC

Value	Exposure route	Source
200 mg/l	STP	100
1 mg/l	Water	100
4 mg/kg	sediment	100
0,4 mg/kg	Soil	100

Source : 100 - Firmendaten

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

Commercial Product Name : FT 6273 SILBER FOLCO AQUAFLEX FT

Article-No. : 15210-066

Revision Date : 19.11.2015

Version : 3.0 /en

**FOLMANN**

Replaces version from : 10.11.2015

Print date : 20.11.2015

## 8.2 Exposure controls

Respiratory protection	Note: Should no job-related limit values are indicated, the product, which a monitoring exposure limit is allocated, do not contains ingredients in relevant concentrations. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
Hand protection	Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Suitable material :	Nitriles
Unsuitable material :	woven fabric, Leather gloves
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment. Long sleeved clothing
General protective and hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	Liquid
Colour	silver
Odour	characteristic
pH	8 - 9
Melting point [°C] / Freezing point [°C]	approx.0°C
Boiling point [°C]	appr.100°C
Evaporation rate [kg/(s*m <sup>2</sup> )]	not determined
Vapour pressure [kPa]	<1013,25hPa
Vapour density	not determined
Density [g/cm <sup>3</sup> ]	appr.1,1g/cm <sup>3</sup>
Water solubility [g/l]	
Remarks :	miscible
Partition coefficient n-octanol /water (log P O/W)	not determined
Autoignition temperature [°C]	not determined
Explosive properties	Not relevant
Oxidising properties	Not relevant

### 9.2 Other information

Flow time [s]	ca.30 - 40 sec
Temperature :	20°C

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

Commercial Product Name : FT 6273 SILBER FOLCO AQUAFLEX FT

Article-No. : 15210-066

Revision Date : 19.11.2015

Version : 3.0 /en

**FOLMANN**

Replaces version from : 10.11.2015

Print date : 20.11.2015

Measuring method : DIN cup 4 mm

**SECTION 10: Stability and reactivity****10.4 Conditions to avoid**

Conditions to avoid None under normal processing.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Hazardous ingredients****2-(2-BUTOXYETHOXY)ETHANOL**

Oral toxicity [mg/kg]	Test criterion	Test species	Measuring method	Source
2410 mg/kg	LD50	mouse	OECD Test Guideline 401	100
5660 mg/kg	LD50	rat		100

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Measuring method	Source
2764 mg/kg	LD50	rabbit	OECD Test Guideline 402	100
4000 mg/kg	LD50	rabbit		100

Source : 100 - Firmendaten

Irritant effect on skin slightly irritating  
 Irritant effect on eyes Irritant  
 Sensitization None known  
 Mutagenicity not mutagenic  
 Reproduction toxicity Animal testing did not show any effects on fertility.

**2,4,7,9-Tetramethyldec-5-in-4,7-diol**

Oral toxicity [mg/kg]	Test criterion	Test species	Source
4600 mg/kg	LD50	rat	100

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Duration	Source
>2001 mg/kg	LD50	rat	24h	100

Source : 100 - Firmendaten

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
>20 mg/l	LC50	rat	1 hour	100

Source : 100 - Firmendaten

Irritant effect on eyes Causes serious eye irritation.

**11.2 Additional information**

Other information (chapter 11.) No toxicology information is available.

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

Commercial Product Name : FT 6273 SILBER FOLCO AQUAFLEX FT

Article-No. : 15210-066

Revision Date : 19.11.2015

Version : 3.0 /en

**FOLMANN**

Replaces version from : 10.11.2015

Print date : 20.11.2015

**SECTION 12: Ecological information****12.1 Toxicity****Hazardous ingredients****2-(2-BUTOXYETHOXY)ETHANOL**

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
1300 mg/l	LC50	LC50/96h/Lepomis macrochirus =	96 h	100
1150 mg/l	LC0	Poecilia reticulata (guppy)	96 h	100
2700	LC50	Carassius auratus (goldfish)	24 h	72
1300	LC50	LC50/96h/Lepomis macrochirus =	96 h	100

Source : 100 – Firmendaten

Source : 72 – Verordnung (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rates vom 16. Dezember 2008 über die Einstufung Kennzeichnung und Verpackung von Stoffen und Gemischen (Tab. 3.1)

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
3200 mg/l	EC 50	Daphnia magna (Water flea)	24 h	100

Source : 100 – Firmendaten

NOEC (daphnia) [mg/l]	Test species	Measuring method	Exposure duration	Source
100 mg/l	Daphnia magna (Water flea)	OECD Test Guideline 202	48 h	100

Source : 100 – Firmendaten

NOEC (algae) [mg/l]	Test species	Measuring method	Exposure duration	Source
>100 mg/l	Desmodesmus subspicatus	OECD Test Guideline 201	96 h	100

Source : 100 – Firmendaten

**2,4,7,9-Tetramethyldec-5-in-4,7-diol**

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

Source : 100 – Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
91 mg/l	EC 50	Daphnia magna (Water flea)	48 h	100

Source : 100 – Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
82 mg/l	EC 50	Selenastrum capricornutum (green algae)	72 h	100

Source : 100 – Firmendaten

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

Commercial Product Name : FT 6273 SILBER FOLCO AQUAFLEX FT

Article-No. : 15210-066

Revision Date : 19.11.2015

Version : 3.0 /en

**FOLMANN**

Replaces version from : 10.11.2015

Print date : 20.11.2015

## Mobility

Mobility

No information available.

## 12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

## 12.6 Other adverse effects

Further information on ecology

We have no quantitative data concerning the ecological effects of this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal considerations

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:

Waste Code

08 01 12: waste paint and varnish other than those mentioned in 08 01 11  
08 03 13: waste ink other than those mentioned in 08 03 12

Uncleaned empty packaging

-  
-

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	Not applicable.	Not applicable.	Not applicable.
14.2 Description of the goods	Non dangerous good	Non dangerous good IATA	Non dangerous good IATA
14.2 UN proper shipping name		Non dangerous good	Non dangerous good
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not applicable.	Not applicable.	Not applicable.

### 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 relevant

## SECTION 15: Regulatory information

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

Additional regulations

Additionally, observe any national regulations!

## SECTION 16: Other information

Relevant H-phrases

EUH208: Contains 2,4,7,9-Tetramethyldec-5-in-4,7-diol. May produce an allergic reaction.  
EUH210: Safety data sheet available on request.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.

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

Commercial Product Name : FT 6273 SILBER FOLCO AQUAFLEX FT

Article-No. : 15210-066

Revision Date : 19.11.2015

Version : 3.0 /en

**FOLMANN**

Replaces version from : 10.11.2015

Print date : 20.11.2015

Wording of the hazard classes	H412: Harmful to aquatic life with long lasting effects. Eye Dam.: Serious eye damage Skin Sens.: Skin sensitization Aquatic Chronic: Hazardous to the aquatic environment
Modifications since last version	Modifications of the previous version are denoted with an asterisk (*).
Department issuing safety data sheet	Environmental Department
Further information	Full text of R-phrases referred to under sections 2 and 3

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.