Commercial Product Name: FS 10 - 923 SD LACK MATT FOLCO AQUASCREEN FS

Article-No.: 15640-923 Revision Date: 30.06.2016



Replaces version from: 08.02.2016 Version: 5.0 /en Print date: 15.11.2016

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

1.1 Product identifier

Commercial Product Name FS 10 - 923 SD LACK MATT FOLCO AQUASCREEN FS 10

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

No. 1272/2008 [CLP]

Labelling according to Regulation (EC) 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; 1,2-

benzisothiazol-3(2H)-one. 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' -oxybisethanol	CAS No.: 111-46-6 EC-No.: 203-872-2 Index-No.: 603-140-00-6 REACH No.: 01-2119457857-21-xxxx	Acute Tox. 4; H302 STOT RE 2; H373	5.0 – 10.0 % by weight
2,4,7,9-Tetram- ethyldec-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
1,2-benzisothiazol-3(2H)- one	CAS No. : 2634-33-5 EC-No. : 220-120-9 Index-No. : 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 0.01 % by weight

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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 con-

taminated clothes and shoes. If skin irritation occurs, seek medical advice/at-

tention.

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 (CO2), Foam, Water spray, Dry powder

Extinguishing media which must not High volume water jet

be used for safety reasons

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 firefight-

ing

The product itself does not burn.

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.

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, uni-

versal binder, sawdust). Clean contaminated surface thoroughly.

Treat recovered material as described in the section "Disposal considera-

tions".

6.4 Reference to other sections

Reference to other sections Disposal considerations See also section 13

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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. 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 re-

Keep in properly labelled containers. Containers which are opened must be

quirements carefully resealed and kept upright to prevent leakage.

Protect from frost. Storage specifications

TRGS 510

Recommended storage temperature 5 - 25 °C

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DIETHYLENE GLYCOL

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
106 mg/kg	Workers	dermal	Long term effects sys-	100
			temic	
60 mg/m ³	Workers	inhale	Long term effects sys-	100
			temic	

Source: 100 - Firmendaten

PNEC

Value	Target group	Exposure route	Source
199,5 mg/l	Environment	STP	100
10 mg/l	Environment	freshwater	100
1 mg/l	Environment	marine water	100
20,9 mg/kg	Environment	sediment	100
2,09 mg/l	Environment	marine sediment	100
1,53 mg/kg	Environment	Soil	100

Source: 100 - Firmendaten

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

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
1,5 mg/kg	Workers	Oral	Short-term effects sys- temic	100
0,5 mg/kg	Workers	Oral	Long term effects sys- temic	100
5,28 mg/m ³	Workers	inhale	Short-term effects Lo- cal	100
1,76 mg/m ³	Workers	inhale	Long term effects sys- temic	100

Source: 100 - Firmendaten

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PNEC

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Value	Target group	Exposure route	Source
0,04 mg/l	Environment	freshwater	100
0,004 mg/l	Environment	marine water	100
0,4 mg/l	Environment	Intermittent release.	100
7 mg/l	Environment	wastewater treatment plant	100
0,32 mg/kg	Environment	freshwater sediment	100
0,032 mg/kg	Environment	marine sediment	100
0,028 mg/kg	Environment	Soil	100

Source: 100 - Firmendaten

8.2 Exposure controls

Respiratory protection Use the indicated respiratory protection if the occupational exposure limit is

exceeded and/or in case of product release (dust).

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.

Hand protection Protective gloves complying with EN 374.Please observe the instructions re-

garding 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.

Unsuitable material: woven fabric, Leather gloves

Suitable material: Nitriles

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 transparent
Odour characteristic
*Melting point [°C] / Freezing point approx. 0 °C

[°C]

*Boiling point [°C] approx. 100 °C Evaporation rate [kg/(s*m²)] not determined

*Vapour pressure [kPa] 123 hPa

Temperature : approx. 50 °C
Vapour density not determined

*Density [g/cm³] approx. 1,05 - 1,15 g/cm³

Temperature: approx. 20 °C

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Water solubility [g/l]

Version: 5.0 /en

Remarks: miscible

Partition coefficient n-octanol /wa-

ter (log P O/W)

not determined

Autoignition temperature [°C] not determined

*Viscosity, dynamic [kg/(m*s)] approx. 35 - 45 dPa*s

Temperature: 20 °C

Measuring method : Haake-Viscotester

Explosive properties Not relevant
Oxidising properties Not relevant

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

DIETHYLENE GLYCOL

О	ral toxicity [mg/kg]	Test criterion	Test species	Source
19	9600 mg/kg	LD50	rat	100
19	9600	LD50	rat	100

Source: 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
13300 mg/kg	LD50	rabbit	100
13300	LD50	rabbit	100

Source: 100 - Firmendaten

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

Source: 100 - Firmendaten

Irritant effect on skin No skin irritation

Irritant effect on eyes Causes serious eye irritation.

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Sensitization May cause sensitization by skin contact.

Carcinogenic effects No known effect. No known effect. Mutagenicity No known effect. Reproduction toxicity

Specific target organ toxicity (single exposure) [mg/kg]	Source	
No known effect.	100	

Source: 100 - Firmendaten

Specific target organ toxicity (repeated exposure) [mg/kg]	Source
No known effect.	100

Source: 100 - Firmendaten

1,2-BENZISOTHIAZOL-3(2H)-ONE

Oral toxicity [mg/kg]	Test criterion	Test species	Source
1193 mg/kg	LD50	rat	100

Source: 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
4115 mg/kg	LD50	rat	100

Source: 100 - Firmendaten

Irritant effect on skin Skin irritation

Irritant effect on eyes Risk of serious damage to eyes.

Sensitization May cause sensitization by skin contact.

no data available Carcinogenic effects no data available Mutagenicity Reproduction toxicity no data available

11.2 Additional information

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

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

DIETHYLENE GLYCOL

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
75200 mg/l	LC50	Pimephales promelas	96 h	100
		(fathead minnow)		

Source: 100 - Firmendaten

Toxicity to daphnia	Test criterion	Test species	Exposure duration	Source
[mg/l]				
>10000 mg/l	EC 50	Daphnia magna (Water	24 h	100
		flea)		

Source: 100 - Firmendaten

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Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
6500 mg/l	EC 50	Pseudokirchneriella	96 h	100
		subcapitata		

Source: 100 - Firmendaten

NOEC (algae) [mg/l]	Test species	Duration of dosage	Source
100 mg/l	Pseudokirchneriella subcapitata	72 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	96 h	100
		(fathead minnow)		
42 mg/l	LC50	Cyprinus carpio (Carp)	96 h	100

Source: 100 - Firmendaten

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

Source: 100 - Firmendaten

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

Source: 100 - Firmendaten

Bioaccumulation 2,64 log Pow

Mobility

Mobility No information available.

1,2-BENZISOTHIAZOL-3(2H)-ONE

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
2,18 mg/l	LC50	Oncorhynchus mykiss	96h	72
		(rainbow trout)		

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	Test criterion	Test species	Exposure duration	Source
[mg/l]				
2,94 mg/l	EC 50	Daphnia magna (Water	48 h	100
		flea)		

Source: 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
0,11 mg/l	ErC50	Pseudokirchneriella	72 h	100
		subcapitata		

Source: 100 - Firmendaten

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12.5 Results of PBT and vPvB assessment

Results of PBT characteristics deter-

mination

This preparation contains no substance considered to be persistent, bioaccu-

mulating nor toxic (PBT).

12.6 Other adverse effects

Further information on ecology

We have no quantitative data concerning the ecological effects of this prod-

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 sugges-

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	Non dangerous good	Non dangerous good	Non dangerous good IATA
goods			
14.2 UN proper shipping		Non dangerous good	Non dangerous good
name			
14.3 Transport hazard	Not applicable.	Not applicable.	Not applicable.
class(es)			
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental haz-	Not applicable.	Not applicable.	Not applicable.
ards			

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Not relevant

Code

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-yne-4,7-diol; 1,2-

benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH210: Safety data sheet available on request.

H302: Harmful if swallowed. H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated expo-

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

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H412: Harmful to aquatic life with long lasting effects.

STOT RE: Specific target organ toxicity - repeated exposure

Eye Dam.: Serious eye damage Skin Sens.: Skin sensitization

Aquatic Chronic: Hazardous to the aquatic environment

Skin Irrit.: Skin irritation

Aquatic Acute: 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.