Commercial Product Name: FOLCO LIT D4 W91

Article-No.: 14301-075 Revision Date: 15.12.2021 Version: 4.1/en



Replaces version from: 06.09.2021

IMPORTER CN:

Shanghai,200122, P.R.China Tel: +86 21 5882 0013

Fax: +86 21 5882 0157

Follmann(Shanghai) Trading Co.,Ltd. Rm.Huadu Mansion,No.838 Zhangyang Rd.

Print date: 25.03.2022

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

1.1 Product identifier

Commercial Product Name **FOLCO LIT D4 W91**

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

Relevant identified uses adhesive

1.3 Details of the supplier of the safety data sheet

Company designation Follmann GmbH & Co. KG

> Postfach 12 63 D-32372 Minden

Telephone: +49 (571) 93 39 -0 FAX: +49 (571) 93 39 -300

производитель/manufacturer/producent Hersteller:

Follmann Chemie GmbH Heinrich-Follmann-Str. 1 32423 Minden

Germany Phone: +49 571 9339-0

IMPORTER RUS:

OOO Follmann 140304 Moscow Geb., Kasimowskoje Schosse 36 Russian Federation Tel: +7 495 665 6000 Fax: +7 495 665 4904

IMPORTER PL:

Follmann Chemica Polska sp.z.o.o.

ul. Gwiazdzista 71/4 01-651 Warszawa Poland Tel: +48 616 683 445 Fax: +48 616 683 446

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

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

1.4 Emergency telephone number

Poland -112 Emergency telephone number European Union

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regula-

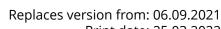
This product is classified as not hazardous according to regulation (EC)

tion (EC) No. 1272/2008 1272/2008 [CLP].

1/13

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2.2 Label elements

Labelling according to Regulation

The product does not have to be labelled according to Regulation (EC)

(EC) No. 1272/2008 [CLP]

No. 1272/2008 [CLP].

Further information EUH208: Contains formaldehyde. May produce an allergic reaction.

EUH210: Safety data sheet available on request.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization waterbased polyvinylacetate-dispersion

Hazardous ingredients

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
Aluminiumchloride, basic	CAS No.: 1327-41-9 EC-No.: 215-477-2 REACH No.: 01-2119531563-43-XXXX	Met. Corr. 1; H290 Eye Dam. 1; H318	1.0 - 5.0 % by weight
propylene carbonate	CAS No.: 108-32-7 EC-No.: 203-572-1 Index-No.: 607-194-00-1 REACH No.: 01-2119537232-48-XXXX	Eye Irrit. 2; H319	1.0 - 5.0 % by weight
formaldehyde	CAS No.: 50-00-0 EC-No.: 200-001-8 Index-No.: 605-001-00-5 REACH No.: 01-2119488953-20-XXXX	Carc. 1B; H350 Muta. 2; H341 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Skin Sens. 1; H317	0.01 - 0.1 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice Move out of dangerous area. Remove contaminated, saturated clothing.

Do not leave the victim unattended. Show this safety data sheet to the

doctor in attendance.

If inhaled If symptoms persist, call a physician.

In case of skin contact Wash off immediately with soap and plenty of water. If skin irritation oc-

curs, 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 (CO2), Foam, Water spray, Dry powder

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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 prodHazardous decomposition products formed under fire conditions.

ucts, or released gases

5.3 Advice for firefighters

Special protective equipment for

firefighting

In the event of fire, wear self-contained breathing apparatus.

Additional information on fire-

fighting

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 sur-

face 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.

6.4 Reference to other sections

Reference to other sections Disposal considerations See also section 13

6.5 Additional information

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

tions".

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.

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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

No special protective measures against fire required.

and explosion

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container re-

Keep in properly labelled containers. Containers which are opened must

quirements

be carefully resealed and kept upright to prevent leakage.

Storage specifications Protect from frost.

TRGS 510 12

Recommended storage tempera-

10 - 30 °C

ture

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

*Aluminiumchloride, basic

DNEL	Target group	Exposure route	Source
5,7 mg/kg	Workers	Oral	Compa-
			ny data
3,7 mg/kg	Consumers	Oral	Compa-
			ny data
0,3 mg/kg	Consumers	Oral	Compa-
			ny data

PNEC	Exposure route	Source
0,3 μg/l	freshwater	Compa-
		ny data

*propylene carbonate

DNEL	Target group	Exposure route	Exposure frequency	Source
20 mg/m ³	Workers	inhale	Local	Compa-
				ny data
176 mg/m ³	Consumers	inhale	systemic	Compa-
				ny data
25 mg/kg	Consumers	dermal exposure	Long term effects	Compa-
				ny data
50 mg/kg	Workers	dermal exposure	systemic	Compa-
				ny data
43,5 mg/m ³	Consumers	inhale	systemic	Compa-
				ny data
25 mg/kg	Consumers	Oral	Long term effects systemic	Compa-
				ny data
10 mg/m ³	Consumers	Inhalation	Long term effects Local	Compa-
				ny data

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9 mg/l	Continuous release.	Compa-
		ny data
0,09 mg/l	marine water	Compa-
		ny data
0,9 mg/l	freshwater	Compa-
		ny data
7400 mg/l	Waste water treatment	Compa-
		ny data
0,81 mg/kg	Soil	Compa-
		ny data

*formaldehyde

Poland					
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Note	Remarks	Source	
0,37	0,74	The substance can cause sensitisation of the skin.	Skin	28	

Europe							
Long-term	Long-term	Short-term	Short-term	Note	Issuing date	Remarks	Source
exposure val-	exposure val-	exposure val-	exposure val-				
ue/ mg/m3	ue/ ppm	ue / mg/m3	ue / ppm				
0,37	0,3	0,74	0,6	The sub-	Richtlinie (EU)		DIRECTIVE
				stance can	2019/983		2009/161/EU
				cause sensiti-			
				sation of the			
				skin.			
0,62	0,5			The sub-	Richtlinie (EU)	* 1)	DIRECTIVE
				stance can	2019/983		2009/161/EU
				cause sensiti-			
				sation of the			
				skin.			

^{* 1):} Grenzwert für Gesundheitseinrichtungen, Bestattungs- und Einbalsamierungsunternehmen bis 11. Juli 2024.

DNEL	Target group	Exposure route	Exposure frequency	Source
0,8 mg/kg	Workers	Inhalation	Short-term effects Local	Compa-
				ny data
240 mg/kg	Workers	dermal	Long term effects systemic	Compa-
				ny data
9 mg/m ³	Workers	inhale	Long term effects systemic	Compa-
				ny data
0,037 mg/cm ²	Workers	dermal	Long term effects Local	Compa-
				ny data
0,4 mg/kg	Workers	inhale	Long term effects Local	Compa-
				ny data
102 mg/kg	Consumers	dermal	Long term effects systemic	Compa-
				ny data
3,2 mg/cm ²	Consumers	inhale	Long term effects systemic	Compa-
				ny data
4,1 mg/kg	Consumers	Oral	Long term effects systemic	Compa-
				ny data
0,012 mg/cm ²	Consumers	dermal	Long term effects Local	Compa-
				ny data

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0,1 mg/m ³	Consumers	inhale	Long term effects Local	Compa-
			_	ny data

PNEC	Exposure route	Source
0,47 mg/l	freshwater	Compa-
		ny data
0,47 mg/l	marine water	Compa-
		ny data
2,44 mg/kg	sediment fresh water	Compa-
		ny data
2,44 mg/kg	marine sediment	Compa-
		ny data
0,21 mg/kg	Soil	Compa-
		ny data
0,19 mg/l	wastewater treatment plant	Compa-
		ny data
4,7 mg/l	Continuous release.	Compa-
		ny data

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 lim-

it 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, abra-

sion, 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. Wear work clothes with long

sleeves.

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.

Engineering measures Provide appropriate exhaust ventilation at machinery.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid
Form Liquid

Colour white

Odour characteristic

Odour threshold For the product of this parameter is not applicable.

pH 2,6 - 3,2

Temperature [°C] 20 °C

Melting point [°C] / Freezing point

[°C]

approx. 0 °C

Boiling point [°C] approx. 100 °C

Flash point [°C] >100 °C

Evaporation rate $[kg/(s m^2)]$ For the product of this parameter is not applicable.

Explosion limits [Vol-%] For the product of this parameter is not applicable.

Vapour pressure [kPa] 23 hPa

Vapour density For the product of this parameter is not applicable.

Density [g/cm³] 1,02 - 1,10 g/cm³

Temperature [°C] 20 °C

Partition coefficient n-octanol /wa- For t

ter (log P O/W)

For the product of this parameter is not applicable.

Autoignition temperature [°C] For the product of this parameter is not applicable.

Decomposition temperature [°C] >=100 °C

Viscosity, dynamic [kg/(m s)] 3.500 - 8.000 mPa*s

Temperature [°C] 20 °C

Measuring method Brookf-Visc.RVT Sp.6

Explosive properties For the product of this parameter is not applicable.

Oxidising properties For the product of this parameter is not applicable.

9.2 Other information

Solid content [%] 49 - 52 %

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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

Oral toxicity [mg/kg]

Hazardous ingredients

Aluminiumchloride, basic					
Value	Test criterion	Test species	Source		
>2001 mg/kg	LD50	rat	Company data		

propylene carbonate			
Value	Test criterion	Test species	Source
33520 mg/kg	LD50	rat	Company data

formaldehyde			
Value	Test criterion	Test species	Source
100 mg/kg	LD50	rat	Company data

Dermal toxicity [mg/kg]

Hazardous ingredients

Aluminiumchloride, basic			
Value	Test criterion	Test species	Source
>2001 mg/kg	LD50	rat	Company data

propylene carbonate			
Value	Test criterion	Test species	Source
>2001 mg/kg	LD50	rabbit	Company data

formaldehyde			
Value	Source		
270 mg/kg	LD50	rabbit	Company data

Irritant effect on skin No skin irritation

Measuring method OECD 439 Skin irritation

Remarks In vitro testing of the product

Irritant effect on eyes No eye irritation

Measuring method OECD 437 Eye irritation

Remarks In vitro testing of the product

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Sensitization

Hazardous ingredients

propylene carbonate			
Value	Test species	Source	
No sensitization responses were observed.	Human experience	Company data	

Carcinogenic effects

Hazardous ingredients

propylene carbonate							
Value	Measuring method	Test species	Source				
negative	OECD Test Guideline 451	mouse	Company data				

Mutagenicity

Hazardous ingredients

propylene carbonate	
Value	Source
negative	Company data

Reproduction toxicity

Hazardous ingredients

propylene carbonate			
Value	Test species	Remarks	Source
1000 mg/kg	rat	Oral	Company data

Specific target organ toxicity (single exposure) [mg/kg]

Hazardous ingredients

1101201 010 010 1110	
propylene carbonate	
Value	Source
no data available	Company data

Specific target organ toxicity (repeated exposure) [mg/kg]

Hazardous ingredients

propylene carbonate	
Value	Source
no data available	Company data

11.2 Additional information

Other information (chapter 11.) See section 11.1.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]

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Hazardous ingredients

Aluminiumchloride, basic					
Value	Test criterion	Test species	Exposure dura- tion [h]	Source	
>1001 mg/l	LC50	Brachydanio re- rio (zebra fish)	96 h	Company data	

propylene carbonate	
Value	Source
>1001 mg/l	Company data

Toxicity to daphnia [mg/l]

Hazardous ingredients

Aluminiumchloride, basic				
Value	Test criterion	Test species	Exposure dura- tion [h]	Source
(98)	EC50	Daphnia	48 h	Company data

propylene carbonate	
Value	Source
>1001 mg/l	Company data

formaldehyd	e				
Value	Test criteri-	Test species	Exposure	Measuring	Source
	on		duration [h]	method	
5,8 mg/l	EC50	Daphnia	48 h	OECD Test	Company da-
		pulex (Water		Guideline	ta
		flea)		202	

Toxicity to algae [mg/l]

Hazardous ingredients

propylene carbonate	
Value	Source
900 mg/l	Company data

formaldehyd	е				
Value	Test criteri- on	Test species	Exposure duration [h]	Measuring method	Source
4,89 mg/l	EC50	Scend- edesmus subspicatus	72 h	OECD Test Guideline 201	Company da- ta

Aquatic toxicity [mg/l]

Hazardous ingredients

propylene carbonate	
Value	Source
25619 mg/l	Company data

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NOEC (fish) [mg/l]

Hazardous ingredients

Aluminiumchloride, basic		
Value	Test species	Source
>1001 mg/l	Brachydanio rerio (zebra fish)	Company data

12.2 Persistence and degradability

Biodegradability

Hazardous ingredients

formaldehyde			
Value	Duration	Remarks	Source
Readily biodegradable, according to appropriate OECD test.	14 day(s)	91 %	Company data

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics de-

termination

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 prod-

uct specific, but application specific. The following Waste Codes are only

suggestions:

Waste Code 08 04 10 waste adhesives and sealants other than those mentioned in 08

04 09

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			
14.3 Transport hazard	Not applicable.	Not applicable.	Not applicable.
class(es)			
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not applicable.	Not applicable.	Not applicable.
		•	

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14.6 Special precautions for user

Precautions No special measures are required.

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

Transport in bulk according to

Not relevant

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

Polen1 (Dz.U.2011 nr 63 poz. 322)

Additional regulations Additionally, observe any national regulations!

References to substance in ordi-

rma- Polen2 (REACH)

nances, regulations and informa-

tion sheets (PL) Polen3 (Dz. Urz. UE L353 z 31.12.2008r)

Polen4 (Dz. U. nr 27 poz. 140)

Polen5 (Dz. U. Poz. 1018; Dz. U. Poz 445)

The Decree of the Minister for Employment and Social Affairs dated November 29, 2002 regarding the highest permissible concentration and intensity of health-endangering substances at the workplace (Law Gazette

dated December 18, 2002) - Law Gazette 02.

Polen7 (Dz. U. 13 poz. 21) waste

SECTION 16: Other information

Modifications since last version Modifications of the previous version are denoted with an asterisk (*).

Relevant H-phrases H290: May be corrosive to metals.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage. H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H341: Suspected of causing genetic defects.

H350: May cause cancer.

EUH208: Contains formaldehyde. May produce an allergic reaction.

Wording of the hazard classes Met. Corr.: Substance or mixture corrosive to metals

Eye Dam.: Serious eye damage Eye Irrit.: Serious eye irritation

Carc.: Carcinogenicity

Muta.: Germ cell mutagenicity

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Acute Tox.: Acute toxicity Skin Corr.: Skin corrosion Skin Sens.: Skin sensitization

Department issuing safety data

sheet

Environmental Department

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.