

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

Commercial Product Name : DFP 526/16 FOLCO RELIEFPASTE DFP

Article-No. : 15310-026

Revision Date : 06.07.2016

Version : 2.0 /en

FOLMANN

Replaces version from : 05.11.2014

Print date : 07.10.2016

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

1.1 Product identifier

Commercial Product Name **DFP 526/16 FOLCO RELIEFPASTE DFP**

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 1,2-benzisothiazol-3(2H)-one; 2-Methyl-2H-isothiazol-3-on; mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

EUH210: Safety data sheet available on request.

SECTION 3: Composition/information on ingredients

3.2 Mixture

Chemical characterization preparation on basis of vinylacetate polymer

Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
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 - 0.1 % by weight
2-Methyl-2H-isothiazol-3-on	CAS No. : 2682-20-4 EC-No. : 220-239-6	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 2; H330 Skin Corr. 1B; H314 Skin Sens. 1A; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	0.01 - 0.1 % by weight

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Ingredient		Classification (EC) 1272/2008	Concentration
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	CAS No. : 55965-84-9 2682-20-4 26172-55-4 Index-No. : 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.01 % by weight

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 ₂), 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.
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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.
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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".

6.4 Reference to other sections

Reference to other sections Disposal considerations See also section 13

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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 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.

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

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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	paste-like to fluid
Colour	white
Odour	characteristic
pH	6-7
Melting point [°C] / Freezing point [°C]	appr. 0 °C
Boiling point [°C]	appr. 100 °C
Evaporation rate [kg/(s*m ²)]	not determined
Vapour pressure [kPa]	123 hPa
Temperature :	50 °C
Vapour density	not determined
Density [g/cm ³]	appr.1,333-1,343g/cm ³
Water solubility [g/l]	
Remarks :	miscible
Partition coefficient n-octanol /water (log P O/W)	not determined
Autoignition temperature [°C]	not determined
Viscosity, dynamic [kg/(m*s)]	approx.60-70dPa*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

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

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

Source : 100 - Firmendaten

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

2-Methyl-2H-isothiazol-3-on

Oral toxicity [mg/kg]	Test criterion	Source
285 mg/kg	LD50	100

Source : 100 - Firmendaten

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

Source : 100 - Firmendaten

LC50 Inhalation 4h for dusts and sprays [mg/l]	Test criterion	Test species	Measuring method	Exposure duration	Source
0,11 mg/l	LC50	rat	OECD Test Guide- line 403	4h	2

Source : 2 - SimChem

Irritant effect on skin	irritating
Measuring method	OECD Test Guideline 404
Test species	rabbit
Irritant effect on eyes	May cause irreversible eye damage.
Measuring method	Draize Test
Test species	rabbit
Irritant effect on the respiratory tract	May cause irritation of respiratory tract.

GEMISCH AUS 5-CHLOR-2-METHYL-2H-ISOTHIAZOL-3-ON UND 2-METHYL-2H-ISOTHIAZOL-3-ON (3:1)

Oral toxicity [mg/kg]	Test criterion	Test species	Measuring method	Source
2131 mg/kg	LD50	rat	OECD Test Guideline 401	100

Source : 100 - Firmendaten

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

Source : 100 - Firmendaten

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Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
0,33 mg/l	LC50	rat	4 hours	100

Source : 100 – Firmendaten

Irritant effect on skin	corrosive effects
Test species	rabbit
Irritant effect on eyes	irritating
Test species	rabbit
Sensitization	Causes sensitization.
Test species	guinea pig

11.2 Additional information

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

SECTION 12: Ecological information**12.1 Toxicity****Hazardous ingredients****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 (rainbow trout)	96h	72

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
2,94 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
0,11 mg/l	ErC50	Pseudokirchneriella subcapitata	72 h	100

Source : 100 – Firmendaten

2-Methyl-2H-isothiazol-3-on

Toxicity to fish [mg/l]	Source
4,77 mg/l	100

Source : 100 – Firmendaten

Toxicity to daphnia [mg/l]	Source
1,9 mg/l	100

Source : 100 – Firmendaten

Toxicity to algae [mg/l]	Test species	Source
0,158 mg/l	Selenastrum capricornutum (green algae)	100

Source : 100 – Firmendaten

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NOEC (daphnia) [mg/l]	Test species	Duration of dosage	Source
0,04 mg/l	Daphnia magna (Water flea)	21 day(s)	100

Source : 100 - Firmendaten

Ready degradability

GEMISCH AUS 5-CHLOR-2-METHYL-2H-ISOTHIAZOL-3-ON UND 2-METHYL-2H-ISOTHIAZOL-3-ON (3:1)

Toxicity to fish [mg/l]	Source
0,28 mg/l	100

Source : 100 - Firmendaten

Toxicity to daphnia [mg/l]	Source
0,16 mg/l	100

Source : 100 - Firmendaten

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 -
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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	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 MARPOL and the IBC Code

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

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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 1,2-benzisothiazol-3(2H)-one; 2-Methyl-2H-isothiazol-3-on; mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
EUH210: Safety data sheet available on request.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H330: Fatal if inhaled.
H331: Toxic if inhaled.
H335: May cause respiratory irritation.
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.

Wording of the hazard classes

Acute Tox.: Acute toxicity
Skin Irrit.: Skin irritation
Eye Dam.: Serious eye damage
Skin Sens.: Skin sensitization
Aquatic Acute: Hazardous to the aquatic environment
Aquatic Chronic: Hazardous to the aquatic environment
Skin Corr.: Skin corrosion
STOT SE: Specific target organ toxicity – single exposure

*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.