

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

**FOLMANN**

Commercial Product Name : FQ 3612/0

Article-No. : E22000054

Revision date : 08.10.2015

Version : 1 /en

Print date : 30.10.2015

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

### 1.1 Product identifier

Commercial Product Name FQ 3612/0

### 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 STOT RE 2; H373

### 2.2 Label elements

Hazard pictogram



GHS08

Signal word Warning

Hazardous component(s) to be indicated on label 2 , 2'-Oxydiethanol

H-statement(s) H373: May cause damage to organs through prolonged or repeated exposure .

P-statement(s) P314: Get medical advice/attention if you feel unwell.

Further information EUH208: Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixture

Chemical characterization acrylate-polyurethane-dispersion

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## Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
2,2'-Oxydiethanol	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	10.0 - 15.0 % by weight
N-Ethylmorpholine	CAS No. : 100-74-3 EC-No. : 202-885-0	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1B; H314	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 - 0.1 % 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 (CO2), 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.

## 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.
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## 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.

## 6.5 Additional information

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

## 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. None under normal processing.

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                                        10

Recommended storage temperature        5–20 °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                      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.



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## N-Ethylmorpholine

Oral toxicity [mg/kg]	Test criterion	Test species	Source
1102 mg/kg	LD50	rat	19

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

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
990 mg/kg	LD50	rabbit	19

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

LC50 Inhalation 4h for dusts and sprays [mg/l]	Test criterion	Test species	Source
9 mg/l	LC50	mouse	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.
Carcinogenic effects	no data available
Mutagenicity	no data available
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 daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
>10000 mg/l	EC 50	Daphnia magna (Water flea)	24 h	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)

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## N-Ethylmorpholine

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
220 - 460 mg/l	LC50	Leuciscus idus (Golden orfe)	96 h	100

Source : 100 - Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
>580 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
580 mg/l	EC 50	Scenedesmus subspicatus	72 h	100

Source : 100 - Firmendaten

## 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

## 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

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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 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 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.  
H226: Flammable liquid and vapour.  
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.  
H373: May cause damage to organs through prolonged or repeated exposure .  
H400: Very toxic to aquatic life.  
H411: Toxic to aquatic life with long lasting effects.

Wording of the hazard classes Acute Tox.: Acute toxicity  
STOT RE: Specific target organ toxicity – repeated exposure  
Flam. Liq.: Flammable liquid  
Skin Corr.: Skin corrosion  
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

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

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

Classification	evaluation
STOT RE 2; H373	

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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.