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

### 1.1 Product identifier

Trade name : Basfoliar Mg flo

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

Use of the Sub-  
stance/Mixture : Fertilizer

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

Company : COMPO EXPERT GmbH  
Kroegerweg 10  
D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person  
responsible for the SDS : info@compo-expert.com

### 1.4 Emergency telephone number

Quality / Safety / Environment  
Telephone: +49 (0) 2151 - 579 - 0

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard : EUH210 Safety data sheet available on request.  
Statements

### 2.3 Other hazards

None known.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Liquid mixture of organic and inorganic salts of fertilizers.

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### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Ethylene glycol	107-21-1 203-473-3	Acute Tox. 4; H302	> 1 - < 5
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H317 Skin Sens. 1; H317 Aquatic Acute 1; H400	< 0,005

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : If breathed in, move person into fresh air.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
If irritation develops, seek medical attention.
- If swallowed : Rinse mouth with water.  
Drink 1 or 2 glasses of water.  
If symptoms persist, seek medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : water jet

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### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : In case of combustion evolution of dangerous gases possible.  
nitrogen oxides  
ammonia

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : The product is not flammable.

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## SECTION 6: Accidental release measures

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

Personal precautions : Avoid contact with skin, eyes and clothing.

### 6.2 Environmental precautions

Environmental precautions : Do not let product enter drains, surface water or subsoil water.

### 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).  
Shovel into suitable container for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not eat, drink or smoke when using this product.  
Wash hands before breaks and at the end of workday.  
Ensure adequate ventilation.

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep away from direct sunlight. Keep in a cool, well ventilated place away from reducing agents.

Advice on common storage : Keep away from strong acids.  
Keep away from strong bases.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Recommended storage temperature : 5 - 45 °C

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perature

Other data : Protect against falling below the following temperature: -5°C

### 7.3 Specific end use(s)

Specific use(s) : Always read the label and product information before use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethylene glycol	107-21-1		10 ppm 26 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(l)			
		STEL	40 ppm 104 mg/m <sup>3</sup>	
		TWA	20 ppm 52 mg/m <sup>3</sup>	
			10 ml/m <sup>3</sup> 26 mg/m <sup>3</sup>	TRGS 900 (DE)

Contains no substances with occupational exposure limit values.

#### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ammonia	7664-41-7, 7664-41-7	TWA	20 ppm 14 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		STEL	50 ppm 36 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
			20 ppm 14 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(l)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

### 8.2 Exposure controls

#### Engineering measures

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Ensure thorough ventilation of stores and work areas.

### Personal protective equipment

- Eye protection : Safety glasses
- Hand protection  
Remarks : Protective gloves
- Skin and body protection : Wearing of closed work clothing is recommended.
- Respiratory protection : No personal respiratory protective equipment normally required.  
respiratory protection only if aerosol or dust is formed.

### Environmental exposure controls

- General advice : Do not let product enter drains, surface water or subsoil water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : white
- Odour : odourless
- Odour Threshold : No data available
- pH : 10, (20 °C)
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : Not applicable
- Evaporation rate : No data available
- Flammability (solid, gas) : does not ignite
- Upper explosion limit : Not applicable
- Lower explosion limit : Not applicable
- Vapour pressure : 23 hPa
- Relative vapour density : No data available
- Density : 1,48 g/cm<sup>3</sup> (20 °C)

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Solubility(ies)	
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance

### 9.2 Other information

Surface tension	: No data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.  
No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under normal conditions.  
No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with reducing agents.

### 10.4 Conditions to avoid

Conditions to avoid : No dangerous reaction known under conditions of normal use.

### 10.5 Incompatible materials

Materials to avoid : Strong reducing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed., No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

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### 11.1 Information on toxicological effects

#### Acute toxicity

**Product:**

- Acute oral toxicity : Remarks: The product has not been tested. The information is derived from the properties of the individual components.
- Acute inhalation toxicity : Remarks: The product has not been tested. The information is derived from the properties of the individual components.
- Acute dermal toxicity : Remarks: The product has not been tested. The information is derived from the properties of the individual components.

**Components:**

**Ethylene glycol:**

- Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 2 ppm
- Acute dermal toxicity : LD50 (mouse): > 3.500 mg/kg

**1,2-benzisothiazol-3(2H)-one:**

- Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

#### Skin corrosion/irritation

**Product:**

Result: No skin irritation

#### Serious eye damage/eye irritation

**Product:**

Result: No eye irritation

#### Respiratory or skin sensitisation

**Product:**

Result: non-sensitizing

#### Germ cell mutagenicity

**Product:**

- Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects  
The product has not been tested. The information is derived from the properties of the individual components.

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### Carcinogenicity

**Product:**

Remarks: Contains no ingredient listed as a carcinogen

### Reproductive toxicity

**Product:**

Effects on fertility :  
Remarks: No toxicity to reproduction

Effects on foetal development :  
Remarks: Contains no ingredient listed as toxic to reproduction

### STOT - single exposure

**Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

**Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

**Components:**

**1,2-benzisothiazol-3(2H)-one:**

Toxicity to fish : LC50 (Salmo trutta (brown trout)): = 2,18 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): = 2,18 mg/l  
Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): = 0,11 mg/l



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Exposure time: 72 h

### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : Remarks: Not applicable

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Observe national and local legal requirements.  
Do not flush into surface water or sanitary sewer system.

Contaminated packaging : If recycling is not practicable, dispose of in compliance with local regulations.

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## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

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### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Water contaminating class : WGK 1 slightly water endangering  
(Germany)

### 15.2 Chemical Safety Assessment

No data available

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H400 : Very toxic to aquatic life.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Acute aquatic toxicity  
Eye Dam. : Serious eye damage  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of

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Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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