

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.03.2021

Version number 8.0

Revision: 02.03.2021

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

#### · 1.1 Product identifier

· **Trade name:** 858 Eurofinish M Protect

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

No further relevant information available.

#### · Application of the substance / the mixture

Coating

Lacquer

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

##### · **Manufacturer/Supplier:**

Forbo Eurocol Deutschland GmbH

August-Röbling-Straße 2

99091 Erfurt

GERMANY

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www.forbo-eurocol.de

##### · **Further information obtainable from:**

Laboratory

Elisabeth Reinhardt

Elisabeth.Reinhardt@forbo.com

##### · 1.4 Emergency telephone number:

Poison information center for the states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia:

+49-361-730730

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

##### · **Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

#### · 2.2 Label elements

##### · **Labelling according to Regulation (EC) No 1272/2008 Void**

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

##### · **Additional information:**

EUH 208: Contains 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), 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

#### · 2.3 Other hazards

##### · **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 111-76-2	2-butoxyethanol	≤2.5%
EINECS: 203-905-0	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	

#### Regulation (EC) No 648/2004 on detergents / Labelling for contents

preservation agents (BENZISOTHIAZOLINONE)

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If symptoms persist consult doctor.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

#### 5.3 Advice for firefighters

**Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Not required.

**6.2 Environmental precautions:** Dilute with plenty of water.

#### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling** No special measures required.

**Information about fire - and explosion protection:** No special measures required.

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

##### Storage:

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

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- **Storage class (TRGS):** 12
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

#### · **Ingredients with limit values that require monitoring at the workplace:**

##### 111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m<sup>3</sup>, 50 ppm  
 Long-term value: 123 mg/m<sup>3</sup>, 25 ppm  
 Sk, BMGV

#### · **DNELs**

##### 111-76-2 2-butoxyethanol

Oral	DNEL Long-term - oral, systemic effects	6.9 mg/kg_bw/day (general public)
	DNEL Acute - oral, systemic effects	26.7 mg/kg bw/day (general public)
Dermal	DNEL Long-term – dermal, local effects	75 mg/kg bw/day (general public)
	DNEL Acute - dermal systemic effects	89 mg/kg bw/day (Worker)
Inhalative		89 mg/kg bw/day (general public)
	DNEL Long-term – inhalation, systemic effects	59 mg/m <sup>3</sup> /day (general public)
	DNEL Acute – inhalation, systemic effects	1,091 mg/m <sup>3</sup> (Worker)
		426 mg/m <sup>3</sup> (general public)
	DNEL Acute - inhalation, local effects	246 mg/m <sup>3</sup> (Worker)
		147 mg/m <sup>3</sup> (general public)

#### · **PNECs**

##### 111-76-2 2-butoxyethanol

PNEC short term, fresh water	8.8 mg/l (Aquatic organisms)
PNEC short term, sea water	0.88 mg/l (Aquatic organisms)
PNEC short term, sewage plant	463 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	34.6 mg/kg (Aquatic organisms)
PNEC short term soil	3.13 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	3.46 mg/kg (Aquatic organisms)
PNEC secondary poisoning	20 mg/kg KG/d

#### · **Ingredients with biological limit values:**

##### 111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine  
 Medium: urine  
 Sampling time: post shift  
 Parameter: butoxyacetic acid

- **Additional information:** The lists valid during the making were used as basis.

#### · **8.2 Exposure controls**

##### · **Personal protective equipment:**

##### · **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

##### · **Respiratory protection:** Not required.

##### · **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Fluid

· **Colour:** Beige

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 7

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

· **Initial boiling point and boiling range:** 100 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 1.029 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with water:**

Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

· **Dynamic:** Not determined.

· **Kinematic:** Not determined.

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<b>· Solvent content:</b>	
<b>Organic solvents:</b>	2.5 %
<b>Water:</b>	5.0 %
<b>VOC (EC)</b>	2.46 %

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

#### ATE (Acute Toxicity Estimates)

Oral	LD50	60,458 mg/kg (rat)
Dermal	LD50	>13,584 mg/kg (rab)
Inhalative	LD50	>309 mg/kg

#### 111-76-2 2-butoxyethanol

Oral	LD50	1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

#### 111-76-2 2-butoxyethanol

LC50 (96h) mg/ltr.	1,474 mg/ltr (Oncorhynchus mykiss)
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EC50 (48h)	1,550 mg/l ( <i>Daphnia magna</i> )
EC50 (72h)	1,840 mg/l ( <i>Pseudokirchneriella subcapitata</i> )
NOEC	100 mg/ml /21d ( <i>Daphnia magna</i> )

**· 12.2 Persistence and degradability**

67-63-0 | propan-2-ol | 95 %

**· 12.3 Bioaccumulative potential** No further relevant information available.

**· 12.4 Mobility in soil** No further relevant information available.

**· Additional ecological information:**
**· General notes:** Not hazardous for water.

**· 12.5 Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

**· vPvB:** Not applicable.

**· 12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**· 13.1 Waste treatment methods**
**· Recommendation** Smaller quantities can be disposed of with household waste.

**· Uncleaned packaging:**
**· Recommendation:** Disposal must be made according to official regulations.

**· Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

**· 14.1 UN-Number**
**· ADR, IMDG, IATA** not regulated

**· 14.2 UN proper shipping name**
**· ADR, IMDG, IATA** not regulated

**· 14.3 Transport hazard class(es)**
**· ADR, ADN, IMDG, IATA**
**· Class** not regulated

**· 14.4 Packing group**
**· ADR, IMDG, IATA** not regulated

**· 14.5 Environmental hazards:**

Not applicable.

**· 14.6 Special precautions for user**

Not applicable.

**· 14.7 Transport in bulk according to Annex II of**
**Marpol and the IBC Code**

Not applicable.

**· UN "Model Regulation":**

not regulated

### SECTION 15: Regulatory information

**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**· Directive 2012/18/EU**
**· Named dangerous substances - ANNEX I** None of the ingredients is listed.

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- **National regulations:**
- **VOC (EU)** 26.6 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- **Disclaimer**

*This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.*

- **Relevant phrases**

*H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.*

- **Department issuing SDS:** Environmental Protection Department

- **Contact:**

*Laboratory  
Elisabeth Reinhardt  
Elisabeth.Reinhardt@forbo.com*

- **Abbreviations and acronyms:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*