

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 22.11.2022

Version number 6 (replaces version 5)

Revision: 22.11.2022

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

· **1.1 Product identifier**

· Trade name: **681 Marmercol**

· Article number: 681

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

*No further relevant information available.*

· **Application of the substance / preparation** *Tile adhesive*

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

· **Manufacturer/Supplier:**

*Forbo Eurocol Nederland B.V.*

*Industrieweg 1-2*

*NL-1521 NA Wormerveer Holland*

*Tel. +31 75 6271600 - Fax +31 75 6283564*

*E-mail address: info.eurocol@forbo.com*

*Website: www.eurocol.com*

· **1.4 Emergency telephone number:**

*In case of emergency please contact the Dutch National Poison Control, telephone number: 0031-(0)88-755 8000 (This number is only accessible to the physician treating the patient and only in case of accidental poisoning).*

#### 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 GB 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:**

*Contains 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), 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.*

#### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** *Tile adhesive based on styrene acrylate and fillers*

(Contd. on page 2)

# Safety data sheet

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Trade name: **681 Marmercol**

(Contd. of page 1)

**Dangerous components:**

|                                     |   |     |
|-------------------------------------|---|-----|
| CAS: 2634-33-5<br>EINECS: 220-120-9 | 1,2-benzisothiazol-3(2H)-one<br><span style="color: red;">⚠</span> Acute Tox. 2, H330; <span style="color: red;">⚠</span> Eye Dam. 1, H318; <span style="color: red;">⚠</span> Aquatic Acute 1, H400; Aquatic Chronic 1, H410; <span style="color: red;">⚠</span> Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317<br>Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %   | <1% |
| CAS: 55965-84-9                     | 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)<br><span style="color: red;">⚠</span> Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; <span style="color: red;">⚠</span> Skin Corr. 1C, H314; Eye Dam. 1, H318; <span style="color: red;">⚠</span> Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); <span style="color: red;">⚠</span> Skin Sens. 1A, H317<br>Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 %<br>Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %<br>Eye Dam. 1; H318: C ≥ 0.6 %<br>Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %<br>Skin Sens. 1A; H317: C ≥ 0.0015 % | <1% |

· **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**

- **General information:** No special measures required.
- **After inhalation:** Not applicable.
- **After skin contact:** Wash with water and soap.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a physician.
- **After swallowing:** Rinse mouth with water and then drink plenty of water, consult physician immediately.
- **Information for doctor:** Product is weak alkaline and after drying hardly soluble in water.

· **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:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **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:** Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

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Revision: 22.11.2022

Trade name: **681 Marmercol**

(Contd. of page 2)

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Collect product in waste container. Rinse floor with water.

### · 6.4 Reference to other sections

No dangerous substances are released.

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:** *Store in a cool, but frost-proof location.*

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

#### · Further information about storage conditions:

*Recommended storage temperature between 15 and 25 °C.*

· **7.3 Specific end use(s)** *No further relevant information available.*

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

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

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

#### · **DNELs**

##### **2634-33-5 1,2-benzisothiazol-3(2H)-one**

|            |  |                                   |
|------------|--|-----------------------------------|
| Dermal     | DNEL long term                           | 0.966 mg/kg KG/d (wrk)            |
|            | DNEL short term systemic health problems | 0.345 mg/kg/d (Consumer)          |
| Inhalative | DNEL Inhalative long terme               | 1.2 /mg/m <sup>3</sup> (Consumer) |
|            | DNEL                                     | 6.81 mg/m <sup>3</sup> (wrk)      |

##### **55965-84-9 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)**

|            |                            |                                    |
|------------|----------------------------|------------------------------------|
| Oral       | DNEL                       | 0.09 mg/kg (Consumer)              |
| Inhalative | DNEL Inhalative long terme | 0.02 /mg/m <sup>3</sup> (Consumer) |

#### · **PNECs**

##### **2634-33-5 1,2-benzisothiazol-3(2H)-one**

|           |                                   |
|-----------|-----------------------------------|
| PNEC      | 4.99 µg/kg (Sea Water Sediment)   |
|           | 49.9 µg/kg (Fresh Water Sediment) |
| PNEC ug/l | 0.403 µg/l (Sea Water)            |
|           | 4.03 µg/l (Fresh Water)           |

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 22.11.2022

Trade name: **681 Marmercol**

(Contd. of page 3)

PNEC mg/kg | 3 mg/kg (Soil)

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PNEC mg/kg | 0.01 mg/kg (Soil)

0.027 mg/kg (Sea Water Sediment)

0.027 mg/kg (Fresh Water Sediment)

- **Additional information:** *The lists valid during manufacture were used as basis.*
- **8.2 Exposure controls**
- **Appropriate engineering controls** *No further data; see item 7.*
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
*The usual precautionary measures are to be adhered to when handling chemicals.  
 Wash hands before breaks and at the end of work.  
 Do not eat, drink, smoke or sniff while working.  
 Immediately remove all soiled and contaminated clothing  
 Avoid contact with the eyes and skin.*
- **Respiratory protection:** *Not required.*
- **Hand protection**



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

*Selection of the glove material is dependant on the penetration times, rates of diffusion and degradation.*

- **Material of gloves**  
*Suitable chemical-resistant gloves (EN 374) even with longer direct contact (recommendation: protection index 6, corresponding > 480 minutes permeation time (permeation) according to EN 374) e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and others. Due to several factors that can influence (e.g. temperature), it must be taken into account that the service life of a chemical glove can in practice be considerably shorter than the permeation time indicated by the test.*
- **Penetration time of glove material** *> 480 Minutes.*
- **For prolonged contact gloves made of the following materials are suitable:**  
*Chloroprene and butylrubber.  
 Nitrile rubber*
- **Eye/face protection** *Goggles recommended during refilling*

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** *Fluid*
- **Colour:** *White*
- **Odour:** *Mild*
- **Odour threshold:** *Not determined.*
- **Melting point/freezing point:** *Undetermined.*
- **Boiling point or initial boiling point and boiling range** *100 °C*
- **Flammability** *Not applicable.*

(Contd. on page 5)

GB

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according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 22.11.2022

Trade name: **681 Marmercol**

(Contd. of page 4)

|   |                        |
|---|------------------------|
| · Lower and upper explosion limit                   |                        |
| · Lower:  | <i>Not determined.</i> |
| · Upper:  | <i>Not determined.</i> |
| · Flash point:                                      | <i>Not applicable.</i> |
| · Decomposition temperature:                        | <i>Not determined.</i> |
| · pH at 20 °C                                       | 8                      |
| · Viscosity:  |                        |
| · Kinematic viscosity                               | <i>Not determined.</i> |
| · Dynamic:  | <i>Not determined.</i> |
| · Solubility  |                        |
| · water:  | <i>Not determined.</i> |
| · Partition coefficient n-octanol/water (log value) | <i>Not determined.</i> |
| · Vapour pressure at 20 °C:                         | 23 hPa                 |
| · Density and/or relative density                   |                        |
| · Density at 20 °C:                                 | 1.5 g/cm <sup>3</sup>  |
| · Relative density                                  | <i>Not determined.</i> |
| · Vapour density                                    | <i>Not determined.</i> |

### · 9.2 Other information

|   |  |
|---|--|
| · Appearance:   |  |
| · Form:   | <i>Paste</i>   |
| · Important information on protection of health and environment, and on safety. |  |
| · Auto-ignition temperature:  | <i>Product is not self-igniting.</i>                 |
| · Explosive properties:   | <i>Product does not present an explosion hazard.</i> |
| · Solvent content:  |  |
| · Organic solvents:   | 0.0 %  |
| · VOC(EC%)  | 0.0 %  |
| · Change in condition   |  |
| · Evaporation rate  | <i>Not determined.</i>                               |

### · Information with regard to physical hazard classes

|   |             |
|---|-------------|
| · Explosives  | <i>Void</i> |
| · Flammable gases   | <i>Void</i> |
| · Aerosols  | <i>Void</i> |
| · Oxidising gases   | <i>Void</i> |
| · Gases under pressure  | <i>Void</i> |
| · Flammable liquids   | <i>Void</i> |
| · Flammable solids  | <i>Void</i> |
| · Self-reactive substances and mixtures                                     | <i>Void</i> |
| · Pyrophoric liquids  | <i>Void</i> |
| · Pyrophoric solids   | <i>Void</i> |
| · Self-heating substances and mixtures                                      | <i>Void</i> |
| · Substances and mixtures, which emit flammable gases in contact with water | <i>Void</i> |
| · Oxidising liquids   | <i>Void</i> |
| · Oxidising solids  | <i>Void</i> |
| · Organic peroxides   | <i>Void</i> |
| · Corrosive to metals   | <i>Void</i> |

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 22.11.2022

Trade name: **681 Marmercol**

(Contd. of page 5)

· **Desensitised explosives**

Void

### 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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

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

**55965-84-9 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)**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 64-66 mg/kg (rat) |
|------|------|-------------------|

|        |      |                   |
|--------|------|-------------------|
| Dermal | LD50 | 87.12 mg/kg (rat) |
|--------|------|-------------------|

- **Skin corrosion/irritation** *Possible irritation with prolonged or frequent contact.*
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

*None of the ingredients is listed.*

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**2634-33-5 1,2-benzisothiazol-3(2H)-one**

|         |                         |
|---------|-------------------------|
| EC50/3h | 13 mg/l (Not specified) |
|---------|-------------------------|

**55965-84-9 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)**

|          |                |
|----------|----------------|
| LC50/96h | 0.28 mg/l (LM) |
|----------|----------------|

|  |                 |
|--|-----------------|
|  | 0.188 mg/l (OM) |
|--|-----------------|

|           |                 |
|-----------|-----------------|
| EC50/48 h | 0.126 mg/l (DM) |
|-----------|-----------------|

- **12.2 Persistence and degradability** *No further relevant information available.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

(Contd. on page 7)

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Trade name: **681 Marmercol**

(Contd. of page 6)

- **12.6 Endocrine disrupting properties**

*The product does not contain substances with endocrine disrupting properties.*

- **12.7 Other adverse effects**

- **Additional ecological information:**

- **General notes:**

*Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water*

*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

*Danger to drinking water if even small quantities leak into the ground.*

*According to the criteria of the EU-classification and labelling "dangerous for environment"(93/21/EWG) the substance/ the product has to be classified as non-hazardous for the environment.*

### 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.*

### SECTION 14: Transport information

- **14.1 UN number or ID number**

- **ADR, ADN, IMDG, IATA** *Void*

- **14.2 UN proper shipping name**

- **ADR, ADN, IMDG, IATA** *Void*

- **14.3 Transport hazard class(es)**

- **ADR, ADN, IMDG, IATA**

- **Class** *Void*

- **14.4 Packing group**

- **ADR, IMDG, IATA** *Void*

- **14.5 Environmental hazards:**

- **Marine pollutant:** *No*

- **14.6 Special precautions for user**

*Not applicable.*

- **14.7 Maritime transport in bulk according to IMO instruments**

*Not applicable.*

- **Transport/Additional information:**

*Not classified as hazardous under transport regulations.*

- **UN "Model Regulation":**

*Void*

GB

(Contd. on page 8)

## Safety data sheet

### according to 1907/2006/EC, Article 31

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Version number 6 (replaces version 5)

Revision: 22.11.2022

Trade name: **681 Marmercol**

(Contd. of page 7)

### 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.*
- **National regulations:**
- **Waterhazard class:** *Water hazard class 2 (Self-assessment): hazardous for water.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

*H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H310 Fatal 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.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.*

- **Department issuing SDS:** *R&D department*

- **Contact:** *Ing. T.W. Breeuwer*

- **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 (UK REACH)  
PNEC: Predicted No-Effect Concentration (UK REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 2: Acute toxicity – Category 2  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

- \* **Data compared to the previous version altered.**