

**Safety data sheet**  
according to UK REACH

Printing date 05.09.2024

Version number 2

Revision: 05.09.2024

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**Trade name: **358 ToolCleaner**

Article number: 358

**1.2 Relevant identified uses of the substance or mixture and uses advised against***No further relevant information available.*Application of the substance / preparation *Cleaning material/ Detergent***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 6271620**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***Acute Tox. 4 H302 Harmful if swallowed.**Skin Irrit. 2 H315 Causes skin irritation.**Eye Irrit. 2 H319 Causes serious eye irritation.***2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the GB CLP regulation.***Hazard pictograms**

GHS07

**Signal word Warning****Hazard-determining components of labelling:***N-Butylpyrrolidone***Hazard statements***H302 Harmful if swallowed.**H315 Causes skin irritation.**H319 Causes serious eye irritation.*

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### · Precautionary statements

- P280*                    *Wear protective gloves / eye protection / face protection.*  
*P301+P312*           *IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.*  
*P330*                    *Rinse mouth.*  
*P305+P351+P338* *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
*P332+P313*           *If skin irritation occurs: Get medical advice/attention.*  
*P501*                    *Dispose of contents/container in accordance with local/regional/national/international regulations.*

### · 2.3 Other hazards

### · Results of PBT and vPvB assessment

- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

## SECTION 3: Composition/information on ingredients

### · 3.2 Chemical characterisation: Mixtures

- **Description:** *Mixture: consisting of the following components.*

#### · Dangerous components:

CAS: 3470-98-2	N-Butylpyrrolidone	>50-100%
EINECS: 222-437-8	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	>10-25%
EINECS: 203-961-6	⚠ Eye Irrit. 2, H319	
CAS: 108-32-7	propylene carbonate	>10-25%
EINECS: 203-572-1	⚠ Eye Irrit. 2, H319	

- **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:

*Personal protection for the First Aider.*  
*Immediately remove any clothing soiled by the product.*  
*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

#### · After inhalation:

*In case of unconsciousness place patient stably in side/recovery position for transportation.*  
*Supply fresh air; consult doctor in case of complaints.*

#### · After skin contact: Immediately rinse with water.

#### · After eye contact:

*After eye contact rinse the eyes immediately with open lids 10 to 15 minutes with running water. Remove contact lenses, if possible. Keep on rinsing. Consult an ophthalmologist.*

#### · After swallowing:

*Do not induce vomiting; call for medical help immediately.*  
*Rinse mouth with water and consult physician immediately.*

### · 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.*

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water haze. Fight larger fire with alcohol resistant foam.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **5.2 Special hazards arising from the substance or mixture**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Wear chemical protective clothing.*

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
*Use personal protective equipment. Avoid contact with skin and eyes. Do not inhale vapours. Ensure adequate ventilation*
- **6.2 Environmental precautions:**  
*Clean contaminated objects and floor thoroughly according to environmental regulations.*
- **6.3 Methods and material for containment and cleaning up:**  
*Dispose contaminated material as waste according to section 13.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Collect and remove in suitable closed containers.*
- **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**  
*Ensure good ventilation/exhaustion at the workplace.  
Use only in well-ventilated areas. Contact of the skin and avoid the eyes.*
- **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.*
- **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 section 7.*

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

**112-34-5 2-(2-butoxyethoxy)ethanol**

WEL	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
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· **DNELs****108-32-7 propylene carbonate**

Dermal	DNEL long term	10 mg/kg KG/d (consumer)
	DNEL dermal long term	20 /mg/kg (worker) (Systematics)
Inhalative	DNEL Inhalative long terme	10 /mg/m <sup>3</sup> (consumer) (Systematics)
	DNEL	70.5 mg/m <sup>3</sup> (worker)

· **PNECs****108-32-7 propylene carbonate**

PNEC mg/l	0.09 mg/l (Sea Water)
	0.9 mg/l (Fresh Water)
PNEC mg/kg	0.81 mg/kg (Soil)

· **Additional information:** *The lists valid during manufacture 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.**Do not eat, drink, smoke or sniff while working.**Avoid contact with skin, eyes and clothing.**Immediately remove all soiled and contaminated clothing**Wash hands before breaks and at the end of work.*· **Respiratory protection:** *Not necessary if room is well-ventilated.*· **Protection of hands:**

Protective gloves

*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**

*The selection of suitable gloves does not only depend on the material, but also on further aspects 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 established by the manufacturer of the protective gloves and has to be observed.*

· **For prolonged contact gloves made of the following materials are suitable:***Butyl rubber**PVA gloves**Fluorocarbon rubber (Viton)*· **Eye protection:**

Tightly sealed goggles

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### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value: Not determined.

##### · Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	231 °C

· Flash point: 109 °C

· Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Ignition temperature: Product is not self-igniting.

· 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:	0.99 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.

· 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.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Harmful if swallowed.

##### LD/LC50 values relevant for classification:

##### ATE (Acute Toxicity Estimates)

Oral	LD50	833 mg/kg
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##### 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	5,660 mg/kg (rat)
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Dermal	LD50	4,000 mg/kg (rabbit)
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##### 108-32-7 propylene carbonate

Dermal	LD50	>23,800 mg/kg (rabbit)
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##### Primary irritant effect:

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/irritation

Causes serious eye irritation.

##### 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:

##### 3470-98-2 N-Butylpyrrolidone

LC50/96h	>100 mg/l (OM)
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EC50/72 h	>160 mg/l ( <i>Pseudokirchnerella subcapitata</i> )
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EC50/48 h	>100 mg/l ( <i>Daphnia pulex</i> )
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##### 112-34-5 2-(2-butoxyethoxy)ethanol

LC50/96h	1,300 mg/l (LM)
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EC50/96 h	>100 mg/l ( <i>Selenanastrum capricornutum</i> )
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EC50/48 h	>100 mg/l (DM)
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##### 108-32-7 propylene carbonate

LC50/96h	>1,000 mg/l (fish)
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**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.

##### Additional ecological information:

**General notes:** Not known to be hazardous to water.

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- **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** *Liquid material remains are to be disposed of at collection facilities for old varnishes.*
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*
- **Recommended cleansing agents:** *Warm water, if necessary together with cleansing agents.*

### SECTION 14: Transport information

- |  |                        |
|--|------------------------|
| · <b>14.1 UN-Number</b>  |                        |
| · <b>ADR, ADN, IMDG, IATA</b>  | <i>Void</i>            |
| · <b>14.2 UN proper shipping name</b>  |                        |
| · <b>ADR, ADN, IMDG, IATA</b>  | <i>Void</i>            |
| · <b>14.3 Transport hazard class(es)</b>   |                        |
| · <b>ADR, ADN, IMDG, IATA</b>  |                        |
| · <b>Class</b>   | <i>Void</i>            |
| · <b>14.4 Packing group</b>  |                        |
| · <b>ADR, IMDG, IATA</b>   | <i>Void</i>            |
| · <b>14.5 Environmental hazards:</b>   | <i>Not applicable.</i> |
| · <b>14.6 Special precautions for user</b>                                       | <i>Not applicable.</i> |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | <i>Not applicable.</i> |
| · <b>UN "Model Regulation":</b>  | <i>Void</i>            |

### 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:**
  - **Technical instructions (air):**
- | Class     | Share in %  |
|-----------|-------------|
| <i>NK</i> | <i>40.0</i> |
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

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### 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**

*H302 Harmful if swallowed.*

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

- **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)*

*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*

*ATE: Acute toxicity estimate values*

*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*

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