

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

Printing date 12.07.2017

Version number 1

Revision: 12.07.2017

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 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)30-2748888. (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 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.

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*H319 Causes serious eye irritation.***Precautionary statements***P264 Wash hands thoroughly after handling.**P270 Do not eat, drink or smoke when using this product.**P280 Wear protective gloves/protective clothing/eye protection/face protection.**P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**P332+P313 If skin irritation occurs: Get medical advice/attention.**P337+P313 If eye irritation persists: Get medical advice/attention.***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 EINECS: 222-437-8	<i>N-Butylpyrrolidone</i> ⚠ <i>Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319</i>	>50-100%
CAS: 112-34-5 EINECS: 203-961-6 RTECS: KJ 9100000	<i>2-(2-butoxyethoxy)ethanol</i> ⚠ <i>Eye Irrit. 2, H319</i>	>10-25%
CAS: 108-32-7 EINECS: 203-572-1 RTECS: FF 9650000	<i>propylene carbonate</i> ⚠ <i>Eye Irrit. 2, H319</i>	>10-25%

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.*

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- **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:**
CO₂, 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 item 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

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

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8.1 Control parameters**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 ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
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DNELs**108-32-7 propylene carbonate**

Dermal	DNEL	20 mg/kg KG/d (Long term) (Systematics)
Inhalative	DNEL	70.56 mg/m ³ (Long term) (Systematics)

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)

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· Eye protection:

*Tightly sealed goggles*

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	<i>Fluid</i>
· Colour:	<i>Colourless</i>
· Odour:	<i>Characteristic</i>
· Odour threshold:	<i>Not determined.</i>

· pH-value:	<i>Not determined.</i>
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· Change in condition

· Melting point/freezing point:	<i>Undetermined.</i>
· Initial boiling point and boiling range:	<i>231 °C</i>

· Flash point:	<i>109 °C</i>
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· Flammability (solid, gas):	<i>Not applicable.</i>
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· Ignition temperature:

· Decomposition temperature:	<i>Not determined.</i>
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· Auto-ignition temperature:	<i>Product is not self-igniting.</i>
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· Explosive properties:	<i>Product does not present an explosion hazard.</i>
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· Explosion limits:

· Lower:	<i>Not determined.</i>
· Upper:	<i>Not determined.</i>

· Vapour pressure:	<i>Not determined.</i>
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· Density at 20 °C:	<i>0.99 g/cm³</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>
· Evaporation rate	<i>Not determined.</i>

· Solubility in / Miscibility with water:

	<i>Fully miscible.</i>
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· Partition coefficient: n-octanol/water:	<i>Not determined.</i>
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· Viscosity:

· Dynamic:	<i>Not determined.</i>
· Kinematic:	<i>Not determined.</i>

· 9.2 Other information	<i>No further relevant information available.</i>
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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**
Harmful if swallowed.
- | | | |
|--|------|-----------------------|
| · LD/LC50 values relevant for classification: | | |
| 112-34-5 2-(2-butoxyethoxy)ethanol | | |
| Oral | LD50 | 5660 mg/kg (rat) |
| Dermal | LD50 | 4000 mg/kg (rabbit) |
| 108-32-7 propylene carbonate | | |
| Dermal | LD50 | >23800 mg/kg (rabbit) |
- **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.*
 - **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

EC50/48 h > 100 mg/l (*Daphnia pulex*)

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

LC50/96h 1300 mg/l (LM)

EC50/96 h > 100 mg/l (*Selenanastrum capricornutum*)

EC50/48 h > 100 mg/l (DM)

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108-32-7 propylene carbonate

LC50/96h >1000 mg/l (fish)

- **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:** Do not allow product to reach ground water, water course or sewage system.
- **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.

· **European waste catalogue**

HP 4 Irritant - skin irritation and eye damage

HP 6 Acute Toxicity

- **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

- | | |
|--|-----------------|
| · 14.1 UN-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: | 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": | Void |

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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.*

· **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3, 55*

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	40.0

· **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **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**

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 européen sur le transport 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 (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

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

· *** Data compared to the previous version altered.**