Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

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

· **1.1 Product identifier**

· **Trade name: 311 TopCoat - Component A**

· **Article number:** *311-A*

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Application of the substance / preparation** *Lacquer*

· **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**

Skin Sens. 1	*H317 May cause an allergic skin reaction.*
Aquatic Chronic 3	*H412 Harmful to aquatic life with long lasting effects.*

· **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:**
Reaction mass of 1,2,2,6,6-pentamethyl-4-4-piperidyl sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
1,2-benzisothiazol-3(2H)-one
2-methyl-2H-isothiazol-3-one
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)

(Contd. on page 2)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 1)

· **Hazard statements**
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
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:** *Aqueous plastic dispersion*

· **Dangerous components:**

	preservation agents *Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317*	*0.05-1%*
	preservation agents *Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 1, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317*	*0.0015-1%*
	preservation agents *Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317*	*>0.00015-<0.0015%*
	Reaction mass of 1,2,2,6,6-pentamethyl-4-4-piperidyl sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate *Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317*	*>1-5%*
CAS: 112-34-5 *EINECS: 203-961-6*	*2-(2-butoxyethoxy)ethanol* *Eye Irrit. 2, H319*	*<1%*
CAS: 13463-41-7 *EINECS: 236-671-3*	*pyrithione zinc* *Acute Tox. 3, H301; Acute Tox. 2, H330; Repr. 1B, H360D; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410*	*<1%*

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**
preservation agents

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

(Contd. on page 3)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 2)

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
In case of doubt or if symptoms persist call a doctor.
Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side/recovery position for transportation.
· **After skin contact:** *Wash immediately with water and soap and rinse thoroughly.*
· **After eye contact:** *Rinse opened eye for several minutes under running water.*
· **After swallowing:** *Seek medical treatment.*
· **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**
Symptomatic treatment.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
· **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**
Particular danger of slipping on leaked/spilled product.
· **6.2 Environmental precautions:**
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow product to reach sewage system or any water course.
· **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**
Ensure good ventilation/exhaustion at the workplace.
Use only in well ventilated areas.
Prevent formation of aerosols.
Product may not come in contact with water.

(Contd. on page 4)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 3)

· **Information about fire - and explosion protection:**
Fumes can combine with air to form an explosive mixture.

· **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.
Store only in the original receptacle.
Prevent any seepage into the ground.
· **Information about storage in one common storage facility:**
Suitable material for containers and pipes: Light metals and their alloys.
· **Further information about storage conditions:**
Recommended storage temperature between 15 and 25°C.
Store receptacle in a well ventilated area.
Protect from humidity and water.
Protect from frost.
Keep container tightly sealed.
· **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/m³, 15 ppm* *Long-term value: 67.5 mg/m³, 10 ppm*

· **DNELs**		
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Dermal	*DNEL long term*	*0.966 mg/kg KG/d (worker)*
	DNEL short term systemic health problems	*0.345 mg/kg/d (consumer)*
Inhalative	*DNEL Inhalative long terme*	*1.2 /mg/m³ (consumer)*
	DNEL	*6.81 mg/m³ (worker)*
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/m³ (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)
PNEC mg/kg	*3 mg/kg (Soil)*
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)	
PNEC mg/kg	*0.01 mg/kg (Soil)*
	0.027 mg/kg (Sea Water Sediment)
	0.027 mg/kg (Fresh Water Sediment)

(Contd. on page 5)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 4)

· **Additional information:** *The lists valid during manufacture were used as basis.*

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The handling of this product is not recommended for persons with respiratory system and skin hypersensitivity (asthma, chronic bronchititis, chronic skin desease).
The usual precautionary measures are to be adhered to when handling chemicals.
Use skin protection cream for skin protection.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
· **Respiratory protection:**
In case of a risk of inhaling, wear half mask with combination filter for organic vapours and particles.
Filter A/P2
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Protection of hands:**
Protective gloves and protective skin cream

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.
Butyl rubber, BR
Nitrile rubber
· **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.
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
· **Eye protection:** *Tightly sealed goggles by risk of splashing.*
· **Body protection:** *Protective work clothing*

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 at 20 °C:**	*9*
· **Change in condition**	
Melting point/freezing point:	*Undetermined.*

(Contd. on page 6)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 5)

Initial boiling point and boiling range:	*100 °C*
· **Flash point:**	*>100 °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 at 20 °C:**	*23 hPa*
· **Density:**	*Not determined.*
· **Relative density at 20 °C**	*1.04 g/cm³*
· **Vapour density**	*Not determined.*
· **Evaporation rate**	*Not determined.*
· **Solubility in / Miscibility with water:**	*Fully miscible.*
· **Partition coefficient: n-octanol/water:**	*Not determined.*
· **Viscosity:**	
Dynamic at 20 °C:	*730 mPas*
Kinematic:	*Not determined.*
· **Solvent separation test:**	*<3 %*
· **Solvent content:**	
Organic solvents:	*2.2 %*
VOC(EC%)	*2.2 g/l*
· **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 and stored 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:**		
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	*LD50*	*5,660 mg/kg (rat)*

(Contd. on page 7)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 6)

Dermal	*LD50*	*4,000 mg/kg (rabbit)*
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	*ATE*	*532 mg/kg (--)*
Inhalative	*ATE 4Hrs*	*0.4 mg/l (dust and mists)*
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)*
13463-41-7 pyrithione zinc		
Oral	*LD50*	*221 mg/kg (ATE)*
Inhalative	*LC50/4 h*	*0.14 mg/l (ATE)*

· **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**
May cause an allergic skin reaction.
· **Additional toxicological information:**
· **CMR effects (carcinogenity, 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:**	
112-34-5 2-(2-butoxyethoxy)ethanol	
LC50/96h	*1,300 mg/l (LM)*
EC50/96 h	*>100 mg/l (Selenanastrum capricornutum)*
EC50/48 h	*>100 mg/l (DM)*
2634-33-5 1,2-benzisothiazol-3(2H)-one	
EC50/3h	*13 mg/l (Not specified)*
2682-20-4 2-methyl-2H-isothiazol-3-one	
EC50/3h	*34.6 mg/l (activated sludge)*
EC 20/3 H	*2.8 mg/l (activated sludge)*
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**	
2682-20-4 2-methyl-2H-isothiazol-3-one	
OECD 308 Simulation Biodegradation Agu Sed System	*1.28-2.1 days (Not specified)*
OECD 307 Aerobic and Anaerobic Transfortmation Soi	*<0.08 days (Not specified)*

(Contd. on page 8)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 7)

OECD 309 Simulation Biodegradation Surface Water	*4.1 days (Not specified)*

· **12.3 Bioaccumulative potential**

2682-20-4 2-methyl-2H-isothiazol-3-one

BCF	*3.16 BCF (Not specified)*
Verdelingscoëfficient n-octanol/water	*≤0.32 [---] (log Pow) (Not specified)*

· **12.4 Mobility in soil** *No further relevant information available.*
· **Ecotoxical effects:**
· **Remark:** *Harmful to fish*
· **Additional ecological information:**
· **General notes:**
Do not discharge into ground water, in surface water or in the sewer system.
Harmful to aquatic organisms
· **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**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Liquid material remains are to be disposed of at collection facilities for old varnishes.
Hardened material can be disposed of as building rubble.
The give refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may applay under other conditions.

· **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:**	
· **Marine pollutant:**	*No*
· **14.6 Special precautions for user**	*Not applicable.*

(Contd. on page 9)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 8)

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	*Not applicable.*
· **Transport/Additional information:**	*Not classified as hazardous under transport regulations.*
· **UN "Model Regulation":**	*Void*

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Poisons Act**

· **Regulated explosives precursors**
None of the ingredients is listed.

· **Regulated poisons**
None of the ingredients is listed.

· **Reportable explosives precursors**
None of the ingredients is listed.

· **Reportable poisons**
None of the ingredients is listed.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
· **Seveso category** *E2 Hazardous to the Aquatic Environment*
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** *200 t*
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** *500 t*

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	*0.4*

· **Waterhazard class:** *Water hazard class 2 (Self-assessment): hazardous for water.*

· **Other regulations, limitations and prohibitive regulations**
Observe the usual protective measures when working and for storage.
· **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.
H311 Toxic 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.

(Contd. on page 10)

Safety data sheet
according to UK REACH

Printing date 10.09.2024 *Version number 5* *Revision: 10.09.2024*

Trade name: 311 TopCoat - Component A

(Contd. of page 9)

H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H360D May damage the unborn child.
H361f Suspected of damaging fertility.
H372 Causes damage to organs through prolonged or repeated exposure.
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. 1: Acute toxicity – Category 1
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
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
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B
Repr. 2: Reproductive toxicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**