

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

Printing date 11.12.2023

Version number 4 (replaces version 3)

Revision: 11.12.2023

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

· **UFI:** K3M8-50PR-G00H-KRNE

· **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

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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)

· 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.

· Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Aqueous plastic dispersion

· Dangerous components:

CAS: 2634-33-5 EINECS: 220-120-9	1,2-benzisothiazol-3(2H)-one ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	<1%
CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 1, H330; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	<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) ⚠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	<1%
	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	<2%

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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 (M=1000); Aquatic Chronic 1, H410 (M=10) ATE: LD50 oral: 221 mg/kg LC50/4 h inhalative: 0.14 mg/l	<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:**

*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.

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- **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.
- **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**

- **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

- **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 ³ (Consumer)
	DNEL	6.81 mg/m ³ (wrk)

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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 ³ (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)
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· **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 handling of this product is not recommended for persons with respiratory system and skin hypersensitivity (asthma, chronic bronchitis, chronic skin disease).

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.

· **Hand protection**

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

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- **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/face 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**

· Colour:	<i>Colourless</i>
· Odour:	<i>Characteristic</i>
· Odour threshold:	<i>Not determined.</i>
· Melting point/freezing point:	<i>Undetermined.</i>
· Boiling point or initial boiling point and boiling range	<i>100 °C</i>
· Flammability	<i>Not applicable.</i>
· Lower and upper explosion limit	
· Lower:	<i>Not determined.</i>
· Upper:	<i>Not determined.</i>
· Flash point:	<i>>100 °C</i>
· Decomposition temperature:	<i>Not determined.</i>
· pH at 20 °C	<i>9</i>
· Viscosity:	
· Kinematic viscosity	<i>Not determined.</i>
· Dynamic at 20 °C:	<i>730 mPas</i>
· Solubility	
· water:	<i>Fully miscible.</i>
· Partition coefficient n-octanol/water (log value)	<i>Not determined.</i>
· Vapour pressure at 20 °C:	<i>23 hPa</i>
· Density and/or relative density	
· Density:	<i>Not determined.</i>
· Relative density at 20 °C	<i>1.04 g/cm³</i>
· Vapour density	<i>Not determined.</i>
· Particle characteristics	<i>Not applicable.</i>

- **9.2 Other information**

· Appearance:	
· Form:	<i>Fluid</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 separation test:	<i><3 %</i>
· Solvent content:	
· Organic solvents:	<i>2.2 %</i>

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· VOC(EC%)	2.2 g/l
· Change in condition	
· Evaporation rate	Not determined.

Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· 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 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 hazard classes as defined in Regulation (EC) No 1272/2008**
- **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)
Dermal	LD50	4,000 mg/kg (rabbit)

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Oral	LD50	64-66 mg/kg (rat)
Dermal	LD50	87.12 mg/kg (rat)

13463-41-7 pyrethione zinc

Oral	LD50	221 mg/kg (ATE)
Inhalative	LC50/4 h	0.14 mg/l (ATE)

- **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.
- **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.

11.2 Information on other hazards

- **Endocrine disrupting properties**

None of the ingredients is listed.

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)
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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 Transformation Soi	<0.08 days (Not specified)

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OECD 309 Simulation Biodegradation Surface Water	4.1 days (Not specified)
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- **12.3 Bioaccumulative potential**

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

BCF	3.16 BCF (Not specified)
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Verdelingscoëfficiënt n-octanol/water	≤ 0.32 [---] (log Pow) (Not specified)
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- **12.4 Mobility in soil** No further relevant information available.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse 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

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

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

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 apply under other conditions.

- **European waste catalogue**

08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
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HP14	Ecotoxic
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- **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 or ID number**

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

- **14.2 UN proper shipping name**

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

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· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	<i>Void</i>
· 14.4 Packing group	
· ADR, IMDG, IATA	<i>Void</i>
· 14.5 Environmental hazards:	
· Marine pollutant:	<i>No</i>
· 14.6 Special precautions for user	<i>Not applicable.</i>
· 14.7 Maritime transport in bulk according to IMO instruments	<i>Not applicable.</i>
· Transport/Additional information:	<i>Not classified as hazardous under transport regulations.</i>
· UN "Model Regulation":	<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.*
- **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*
- **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3*
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
- None of the ingredients is listed.*
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
- None of the ingredients is listed.*
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
- None of the ingredients is listed.*
- **Regulation (EC) No 273/2004 on drug precursors**
- None of the ingredients is listed.*
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
- None of the ingredients is listed.*

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· **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.**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.**EUH071 Corrosive to the respiratory tract.*· **Department issuing SDS:** *R&D department*· **Contact:** *Ing. T.W. Breeuwer*· **Date of previous version:** *14.08.2023*· **Version number of previous version:** *3*· **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*

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Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 1: Acute toxicity – Category 1
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.**

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