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

1.1 Product Identifier

Trade name: ANCHORBOND 2001 ADHESIVE
Product Code: 1022

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

Identified uses Spray adhesive

1.3 Details of the supplier of the safety data sheet

Company: Redwood UK Ltd
Address: 18 Arnside Road
Waterlooville
PO7 7UP
Email: sales@redwood-uk.com

1.4 Emergency telephone number

02392 233310 (0800-1600 Mon-Fri)

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification (CLP) Skin sensitizer
H317 May cause an allergic skin reaction.

Environment Not Classified

2.2 Label Elements

Labelling elements (CPL)

Contains 1,2-Benzisothiazol-3(2H)-one
2-methylisothiazol-3(2H)-one Isothiazolinone mixture 3:1 (CIT/MIT)



Warning

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Hazard statements

H317 May cause a allergic reaction

Precautionary Statements

P261 Avoid breathing mist/spray
P280 Wear protective gloves

2.3 Other Hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Section 3: Composition/information on ingredients

3.2 Mixtures

General chemical description

Adhesive

Base substances of preparation

Polyvinyle acetate

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Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
propylene carbonate 108-32-7	203-572-1 01-2119537232-48	1- < 3 %	Eye Irrit. 2 H319
bronopol 52-51-7	200-143-0 01-2119980938-15	0,0025- < 0,025 % (25 ppm- < 250 ppm)	Acute Tox. 4; Dermal H312 Acute Tox. 3; Oral H301 STOT SE 3 H335 Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 2 H411 M factor (Acute Aquat Tox): 10
1,2-Benzisothiazol- 3(2H)-one 2634-33-5	220-120-9 01-2120761540-60	0,005- < 0,05 % (50 ppm- < 500 ppm)	Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Acute Tox. 4 H302 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 2 H330
2-methylisothiazol-3(2H)- one 2682-20-4	220-239-6 01-2120764690-50	0,0015- < 0,015 % (15 ppm- < 150 ppm)	Aquatic Chronic 1 H410 Skin Sens. 1A H317 Acute Tox. 2; Inhalation H330 Acute Tox. 3; Oral H301 Acute Tox. 3; Dermal H311 Eye Dam. 1 H318 Aquatic Acute 1 H400 Skin Corr. 1B H314 M factor (Acute Aquat Tox): 10

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Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	01-2120764691-48	0,0001- < 0,0015 % (1 ppm- < 15 ppm)	Acute Tox. 2; Inhalation H330 Aquatic Chronic 1 H410 Acute Tox. 3; Oral H301 Acute Tox. 2; Dermal H310 Eye Dam. 1 H318 Skin Sens. 1A H317 Aquatic Acute 1 H400 Skin Corr. 1C H314 M factor (Acute Aquat Tox): 100 M factor (Chron Aquat
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Section 4: First Aid Measures

4.1 Description of first aid measures

If Inhaled:

Move to fresh air, consult doctor if complaint persists.

In case of eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

If swallowed:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

Skin contact

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

SKIN: Rash, Urticaria.

4.3 Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

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Section 5: Firefighting measures



5.1 Extinguishing media

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2 Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3 Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

Keep unprotected persons away.

6.2 Environmental precautions

Do not empty into drains / surface water / ground water.

6.3 Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4 Reference to other sections

See advice in section 8

Section 7 : Handling and storage

7.1 Precautions for safe handling

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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7.2 Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Store in a cool, dry place.



7.3 Specific End Use(s)

Wood adhesive, dispersion

Section 8: exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Valid for
Great Britain

None

Occupational Exposure Limits

Valid for
Ireland

None

Name On List	Environment Compartment	Exposure Period	Value			
			mg/l	ppm	mg/kg	others
Propylene carbonate 108-32-7	aqua (marine water)		0,09 mg/l			
Propylene carbonate 108-32-7	aqua (freshwater)		0,09 mg/l			
Propylene carbonate 108-32-7	sewage treatment plant (STP)		7400 mg/l			
Propylene carbonate 108-32-7	aqua (intermittent releases)		9 mg/l			
Propylene carbonate 108-32-7	Soil				0,81 mg/kg	
bronopol 52-51-7	aqua (freshwater)		0,01 mg/l			

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			mg/l	ppm	mg/kg	others
bronopol 52-51-7	aqua (marine water)		0,0008 mg/l			
bronopol 52-51-7	aqua (intermittent releases)		0,0025 mg/l			
bronopol 52-51-7	sewage treatment plant (STP)		0,43 mg/l			
bronopol 52-51-7	sediment (freshwater)				0,041 mg/kg	
bronopol 52-51-7	sediment (marine water)				0,00328 mg/kg	
bronopol 52-51-7	Soil				0,5 mg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (freshwater)		0,00403 mg/l			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (marine water)		0,000403 mg/l			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (intermittent releases)		0,0011 mg/l			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sewage treatment plant (STP)		1,03 mg/l			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sediment (freshwater)				0,0499 mg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sediment (marine water)				0,00499 mg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Soil				3 mg/kg	
2-methylisothiazol-3(2H)-one 2682-20-4	aqua (freshwater)		0,0039 mg/l			
2-methylisothiazol-3(2H)-one 2682-20-4	aqua (marine water)		0,0039 mg/l			
2-methylisothiazol-3(2H)-one 2682-20-4	sewage treatment plant (STP)		0,23 mg/l			
2-methylisothiazol-3(2H)-one 2682-20-4	Soil				0,047 mg/kg	

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			mg/l	ppm	mg/kg	others
2-methylisothiazol-3(2H)-one 2682-20-4	aqua (intermittent releases)		0,0039 mg/l			
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	aqua (freshwater)		0,00339 mg/l			
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	aqua (marine water)		0,00339 mg/l			
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	sewage treatment plant (STP)		0,23 mg/l			
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	sediment (freshwater)				0,027 mg/kg	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	sediment (marine water)				0,027 mg/kg	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	Soil				0,01 mg/kg	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	aqua (intermittent releases)		0,00339 mg/l			

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Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Propylene carbonate 108-32-7	Workers	inhalation	Long term exposure -		70,53 mg/m3	
Propylene carbonate 108-32-7	Workers	inhalation	Long term exposure -		20 mg/m3	
Propylene carbonate 108-32-7	Workers	dermal	Long term exposure -		20 mg/kg	
Propylene carbonate 108-32-7	Workers	dermal	Long term exposure -		10 mg/cm2	
Propylene carbonate 108-32-7	General population	inhalation	Long term exposure - local		17,4 mg/m3	
Propylene carbonate 108-32-7	General population	inhalation	Long term exposure - local		10 mg/m3	
Propylene carbonate 108-32-7	General population	dermal	Long term exposure -		10 mg/kg	
Propylene carbonate 108-32-7	General population	oral	Long term exposure -		10 mg/kg	
bronopol 52-51-7	Workers	dermal	Long term exposure -		2,3 mg/kg	
bronopol 52-51-7	General population	dermal	Long term exposure -		1,4 mg/kg	
bronopol 52-51-7	General population	oral	Long term exposure -		0,35 mg/kg	
bronopol 52-51-7	Workers	inhalation	Long term exposure -		4,1 mg/m3	
bronopol 52-51-7	General population	inhalation	Long term exposure -		1,2 mg/m3	

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bronopol 52-51-7	Workers	inhalation	Short term exposure -		12,3 mg/m3	
bronopol 52-51-7	Workers	inhalation	Long term exposure - local		4,2 mg/m3	
bronopol 52-51-7	Workers	inhalation	Short term exposure -		4,2 mg/m3	
bronopol 52-51-7	Workers	dermal	Short term exposure -		7 mg/kg	
bronopol 52-51-7	Workers	dermal	Long term exposure - local		0,013 mg/cm2	
bronopol 52-51-7	Workers	dermal	Short term exposure -		0,013 mg/cm2	
bronopol 52-51-7	General population	dermal	Long term exposure - local		0,008 mg/cm2	
bronopol 52-51-7	General population	dermal	Short term exposure -		0,008 mg/cm2	
bronopol 52-51-7	General population	dermal	Short term exposure -		4,2 mg/kg	
bronopol 52-51-7	General population	inhalation	Long term exposure - local		1,3 mg/m3	
bronopol 52-51-7	General population	inhalation	Short term exposure -		3,7 mg/m3	
bronopol 52-51-7	General population	inhalation	Short term exposure -		1,3 mg/m3	
bronopol 52-51-7	General population	oral	Short term exposure -		1,1 mg/kg	
1,2-Benzisothiazol- 3(2H)-one 2634-33-5	Workers	inhalation	Long term exposure -		6,81 mg/m3	

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1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	dermal	Long term exposure -		0,966 mg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	inhalation	Long term exposure -		1,2 mg/m3	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	dermal	Long term exposure -		0,345 mg/kg	
2-methylisothiazol-3(2H)-one 2682-20-4	Workers	inhalation	Long term exposure - local		0,021 mg/m3	
2-methylisothiazol-3(2H)-one 2682-20-4	Workers	inhalation	short term exposure - local		0,043 mg/m3	
2-methylisothiazol-3(2H)-one 2682-20-4	General population	inhalation	Long term exposure - local		0,021 mg/m3	
2-methylisothiazol-3(2H)-one 2682-20-4	General population	oral	Long term exposure -		0,027 mg/kg	
2-methylisothiazol-3(2H)-one 2682-20-4	General population	oral	short term exposure -		0,053 mg/kg	
2-methylisothiazol-3(2H)-one 2682-20-4	General population	inhalation	short term exposure - local		0,043 mg/m3	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	Workers	inhalation	Long term exposure - local effects		0,02 mg/m3	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	Workers	inhalation	Acute/short term exposure - local effects		0,04 mg/m3	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	inhalation	Long term exposure - local effects		0,02 mg/m3	

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Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	inhalation	Acute/short term exposure - local effects		0,04 mg/m ³	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	oral	Long term exposure - systemic effects		0,09 mg/kg	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	oral	Acute/short term exposure - systemic effects		0,11 mg/kg	

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction

Respiratory protection:
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).
This recommendation should be matched to local conditions.

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

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Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway).

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance	Dispersion, liquid, yellow
(b) Odour	Characteristic
(c) Odour Threshold	No data available
(d) pH	4 to 6
(e) Melting point/freezing point	No data available
(f) Solidification temperature	No data available
(g) Initial boiling point and boiling range	100 °C (212 °F)
(h) Flash point	No flash point up to 250 °C
(i) Evaporation rate	No data available
(j) Flammability (solid gas)	No data available
(k) Upper/lower flammability Or explosive limits	No data available
(l) Vapour pressure	No data available
(m) Vapour density	No data available
(n) Relative density	No data available
(o) Water solubility	Miscible

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(p) Partition coefficient
n-octanol/water

No data available

(q) Auto-ignition temperature

No data available

(r) Decomposition temperature

No data available

(s) Viscosity

No data available

(t) Explosive properties

No data available

(u) Oxidising properties

No data available.

9.2 Other information

No data available

Section 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

See section reactivity

10.4 Conditions to avoid

None if used for intended purpose.

10.5 Incompatible materials

None if used properly.

10.6 Hazardous decomposition products

At higher temperatures acetic acid may be released.

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Section 11: Toxicological information

11.1 Information on toxicological effects

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
propylene carbonate 108-32-7	LD50	> 3.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
bronopol 52-51-7	LD50	1.600 mg/kg	rat	not specified
1,2-Benzisothiazol- 3(2H)-one 2634-33-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
2-methylisothiazol-3(2H)- one 2682-20-4	LD50	242 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84- 9	LD50	87,12 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosph ere	Exposure time	Species	Method
1,2-Benzisothiazol- 3(2H)-one 2634-33-5	LC50	0,4 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
2-methylisothiazol-3(2H)- one 2682-20-4	LC50		dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LC50		dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

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Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
propylene carbonate 108-32-7	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
bronopol 52-51-7	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	moderately irritating	4 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)
2-methylisothiazol-3(2H)-one 2682-20-4	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
propylene carbonate 108-32-7	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
bronopol 52-51-7	highly irritating		rabbit	Draize Test
1,2-Benzisothiazol-3(2H)-one 2634-33-5	corrosive		rabbit	EPA OPP 81-4 (Acute Eye Irritation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	Category 1 (irreversible effects on the eye)		rabbit	not specified

Respiratory or skin sensitization:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
propylene carbonate 108-32-7	not sensitising	Patch-Test	human	Patch Test
bronopol 52-51-7	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

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1,2-Benzisothiazol-3(2H)-on 2634-33-5	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-methylisothiazol-3(2H)-one 2682-20-4	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified

Germ cell mutagenicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation/ Exposure time	Species	Method
propylene carbonate 108-32-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
propylene carbonate 108-32-7	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
bronopol 52-51-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
bronopol 52-51-7	positive	in vitro mammalian chromosome aberration test	with and without		not specified
bronopol 52-51-7	negative	mammalian cell gene mutation assay	with and without		not specified

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1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	positive without metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	ambiguous	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	positive	in vitro mammalian chromosome aberration test	with and without		EPA OPP 84-2 (Mutagenicity Testing)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	positive	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

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Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
propylene carbonate 108-32-7	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
bronopol 52-51-7	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
bronopol 52-51-7	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	oral: unspecified		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

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2-methylisothiazol-3(2H)-one 2682-20-4	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		rat	EPA OPP 84-2 (Mutagenicity Testing)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	not carcinogenic	oral: drinking water	2 y daily	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity /

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Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
bronopol 52-51-7	NOAEL P > 40 mg/kg NOAEL F1 > 40 mg/kg	One generation	oral: gavage	rat	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL P 112 mg/kg NOAEL F1 56,6 mg/kg NOAEL F2 56,6 mg/kg	Two generation study	oral: feed	rat	EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
2-methylisothiazol-3(2H)-one 2682-20-4	NOAEL P 200 ppm NOAEL F1 200 ppm NOAEL F2 200 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two-Generation Reproduction)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL P 30 ppm NOAEL F1 300 ppm NOAEL F2 300 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two-Generation Reproduction)

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
propylene carbonate 108-32-7	NOAEL 0,1 mg/l	inhalation	13 weeks (93 days) 6 h/d; 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation)
propylene carbonate 108-32-7	NOAEL > 5.000 mg/kg	oral: gavage	90 days 5 days/week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in
bronopol 52-51-7	NOAEL 7 mg/kg	oral: drinking water	104 w daily	rat	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL 150 mg/kg	oral: gavage	28 days daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in

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1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL 69 mg/kg	oral: feed	90 days daily	rat	EPA OPP 82-1 (90-Day Oral Toxicity)
2-methylisothiazol-3(2H)-one 2682-20-4	NOAEL 60 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 16,3 mg/kg	oral: drinking water	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 0.34 mg/m ³	inhalation : aerosol	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOAEL 2,625 mg/kg	dermal	90 d 6 h/d	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)

Aspiration hazard:

No data available.

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1 Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
propylene carbonate 108-32-7	LC50	5.300 mg/l	96 h	Leuciscus idus	DIN 38412-15
bronopol 52-51-7	LC50	41 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
bronopol 52-51-7	NOEC	21,5 mg/l	30 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LC50	2,15 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

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1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOEC	0,21 mg/l	30 d	Oncorhynchus mykiss	OECD Guideline 215 (Fish, Juvenile Growth Test)
2-methylisothiazol-3(2H)-one 2682-20-4	LC50	4,77 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LC50	0,22 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,098 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early life stage toxicity test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
propylene carbonate 108-32-7	EC50	> 500 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
bronopol 52-51-7	EC50	1,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	2,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC50	0,93 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0,12 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
bronopol 52-51-7	NOEC	0,27 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOEC	1,2 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-methylisothiazol-3(2H)-one 2682-20-4	NOEC	0,04 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,0036 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

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Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
propylene carbonate 108-32-7	EC50	> 900 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesm	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
propylene carbonate 108-32-7	NOEC	> 900 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesm	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
bronopol 52-51-7	EC50	0,37 mg/l	72 h	Pseudokirch neriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
bronopol 52-51-7	NOEC	0,1 mg/l	72 h	Pseudokirch neriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2-Benzisothiazol- 3(2H)-one 2634-33-5	EC50	0,11 mg/l	72 h	Pseudokirch neriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2-Benzisothiazol- 3(2H)-one 2634-33-5	NOEC	0,0403 mg/l	72 h	Pseudokirch neriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
2-methylisothiazol-3(2H)- one 2682-20-4	NOEC	0,03 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirch neriella	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
2-methylisothiazol-3(2H)- one 2682-20-4	EC50	0,22 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirch neriella	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0,0052 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,00064 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
propylene carbonate 108-32-7	EC10	> 10.000 mg/l	17 h		not specified
bronopol 52-51-7	EC50	43 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	23 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC50	41 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC20	0,97 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2 Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
propylene carbonate 108-32-7	inherently biodegradable	aerobic	> 70 %		OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
propylene carbonate 108-32-7	readily biodegradable	aerobic	98%		OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
bronopol 52-51-7	readily biodegradable	aerobic	70 - 80 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
bronopol 52-51-7	Not inherently biodegradable	no data	50%	45 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	not readily biodegradable	aerobic	42,1 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-methylisothiazol-3(2H)-one 2682-20-4	inherently biodegradable	aerobic	97%	48 h	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-methylisothiazol-3(2H)-one 2682-20-4	readily biodegradable	aerobic	> 70 %	28 d	OECD Guideline 309 (Aerobic Mineralisation in Surface Water Simulation Biodegradation Test)

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Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	inherently biodegradable	aerobic	100%	28 d	other guideline:
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	readily biodegradable	aerobic	> 60 %	28 d	QSAR (Quantitative Structure Activity Relationship)

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	6,62	56 day		not specified	other guideline:
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	3,6			calculation	QSAR (Quantitative Structure Activity Relationship)

12.4 Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
propylene carbonate 108-32-7	-0.41		not specified
bronopol 52-51-7	0,22	24 °C	EU Method A.8 (Partition Coefficient)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	0,7	20 °C	EU Method A.8 (Partition Coefficient)
2-methylisothiazol-3(2H)-one 2682-20-4	-0.5		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	-0.71	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

12.5 Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
propylene carbonate 108-32-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
bronopol 52-51-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-methylisothiazol-3(2H)-one 2682-20-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

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12.6 Other Adverse effects

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods

Product disposal: In consultation with the responsible local authority, must be subjected to special treatment.

Waste code The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.
080409

Section 14: Transport information

14.1 UN Number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2 UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3 Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4 Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5 Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6 Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content
(VOCV 814.018 VOC regulation CH) 0%

15.2 Chemical safety assessment A chemical safety assessment has not been carried out.

Section 16: Other information

The labelling of the product is indicated in Section 2.

The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H312 Harmful 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.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.