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

Printing date 21.02.2024 *Version number 1.12 (replaces version 1.11)* *Revision: 21.02.2024*

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

· **1.1 Product identifier**

· **Trade name: Graffity colourless**

· **Article number:** 2182/131
· **UFI:** CNF5-90NT-X00S-XYFG
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Not suitable for use in homeworker (DIY) applications.
· **Application of the substance / the mixture**
Shoe care lotion
Paint
Restricted to professional users.
· **Uses advised against**
Cosmetic auxiliary
cosmetic products

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Zentralverband Europäischer Lederhändler e.G.

Porschestr. 14

44809 Bochum

Tel.: 0234-3381-0

Fax.: 0234-3381-200

Giftzentrale Bonn

Emergency number 0228/1924

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **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:**
2-methyl-2H-isothiazol-3-one
1,2-benzisothiazol-3(2H)-one
reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)
· **Hazard statements**
H317 May cause an allergic skin reaction.
· **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.

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P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Determination of endocrine-disrupting properties**
The product does not contain substances with endocrine disrupting properties.
For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, conductivity or of similar purity	50 – 100%
	acrylic polymere	25 – 50%
	polymethyl methacrylate	< 5%

· **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 1336-21-6 EINECS: 215-647-6 Index number: 007-001-01-2	ammonia, aqueous solution Skin Corr. 1B, H314; Aquatic Acute 1, H400 Specific concentration limit: STOT SE 3; H335: C ≥ 5% substance with a Community workplace exposure limit	≥ 0.25 – ≤ 0.5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one 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 Specific concentration limit: Skin Sens. 1; H317: C ≥0.005 %	< 0.005%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, 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 %	≥ 0.0015 – < 0.025%
CAS: 55965-84-9 Index number: 613-167-00-5	reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-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 %	< 0.00025%

· **SVHC** Not applicable.
· **Additional information** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information**
Instantly remove any clothing soiled by the product.
Take off contaminated clothing and wash it before reuse.
Seek medical treatment.
· **After inhalation**
In case of unconsciousness bring patient into stable side position for transport.
Supply fresh air; consult doctor in case of symptoms.
· **After skin contact**
Instantly wash with water and rinse thoroughly.
Take off contaminated clothing and wash it before reuse.
May cause an allergic skin reaction.
If skin irritation continues, consult a doctor.
· **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
Remove contact lenses, if present and easy to do. Continue rinsing.
· **After swallowing**
If swallowed, rinse mouth with water (only if the person is conscious).
Seek medical treatment.
A person vomiting while lying on their back should be turned onto their side.
Never give anything by mouth to an unconscious person.
· **Information for doctor**
treat symptomatically
Sensitization possible by skin contact.
· **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions
· **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**
CO_2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Dried up material is combustible.
Use fire extinguishing methods suitable to surrounding conditions.
· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
· **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire
Products of incomplete combustion
Carbon monoxide and carbon dioxide
· **5.3 Advice for firefighters**
· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Bring persons out of danger.
Avoid contact with spilled material.
Avoid contact with the eyes and skin.
· **6.2 Environmental precautions:**
Prevent from spreading (e.g. by damming-in or oil barriers).

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Do not allow to enter drainage system, surface or ground water.
Do not allow to enter the ground/soil.
Inform respective authorities in case product reaches water or sewage system.
If material reaches soil inform authorities responsible for such cases.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Contain larger amounts and pump up into suitable containers.
Stop leak if you can do so without risk.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
No dangerous materials are released.
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Do not eat, drink or smoke while working.
Store in cool, dry place in tightly closed containers.
Prevent formation of aerosols.
Use only in well ventilated areas.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with the eyes and skin.
The usual precautionary measures should be adhered to general rules for handling chemicals.
Instantly remove any clothing soiled by the product.
Wash contaminated body parts thoroughly after handling.
· **Information about protection against explosions and fires:** *No special measures required.*

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and containers:**
Provide floor trough without outlet.
Prevent any penetration into the ground.
Store only in the original container.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidising agents.
· **Further information about storage conditions:**
Keep container tightly sealed.
Protect from frost.
Store container in a well ventilated position.
Store in a cool place.
· **Recommended storage temperature:** *5 - 30°C*
· **Storage class** *12 (non-flammable liquids)*
· **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
1336-21-6 ammonia, aqueous solution	
ELV (European Union)	Long-term value: 14 mg/m³, 20 ppm
STEL (European Union)	Short-term value: 28 (15min.) mg/m³

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· **DNELs**

1336-21-6 ammonia, aqueous solution		
Oral	short-term, systemic effects	6.8 mg/kg bw/day (consumer)
	long-term, systemic effects	6.8 mg/kg bw/day (consumer)
Dermal	short-term, systemic effects	68 mg/kg bw/day (consumer)
		6.8 mg/kg bw/day (worker)
	long-term, systemic effects	68 mg/kg bw/day (consumer)
		6.8 mg/kg bw/day (worker)
Inhalative	short-term, local effects	7.2 mg/m³ (consumer)
		36 mg/m³ (worker)
	short-term, systemic effects	23.8 mg/m³ (consumer)
		47.6 mg/m³ (worker)
	long-term, local effects	2.8 mg/m³ (consumer)
		14 mg/m³ (worker)
	long-term, systemic effects	23.8 mg/m³ (consumer)
		47.6 mg/m³ (worker)

· **PNECs**

1336-21-6 ammonia, aqueous solution	
PNEC (Predicted No Effect Concentration)	0.00011 mg/l (marine water)
	0.0011 mg/l (fresh water)
	0.0068 mg/l (intermittent release)

· **Additional information:**
The lists that were valid during the compilation were used as basis.
Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/ institute(s): for the United Kingdom: UK Health and Safety Executive (HSE)

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Store protective clothing separately.
Do not eat, drink or smoke while working.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
· **Breathing equipment:**
Suitable respiratory protection for high concentrations or long-term exposure:
Filter A/P2.
· **Hand protection**
Protective gloves.
Only use chemical-protective gloves with CE-labelling of category III.
Check protective gloves prior to each use for their proper condition.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Protective gloves should be replaced at first signs of wear.
· **Material of gloves**
Nitrile rubber, NBR
Recommended thickness of the material: >0,5 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks 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.

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· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR
· **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
Leather gloves
· **Eye/face protection** Safety glasses
· **Body protection:** Protective work clothing.
· **Environmental exposure controls**
Do not allow to enter drainage system, surface or ground water.
Do not allow to enter the ground/soil.
Prevent from spreading (e.g. by damming-in or oil barriers).

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Fluid
· **Colour:**	White
· **Odour:**	Light
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	Not determined.
· **Boiling point or initial boiling point and boiling range**	100 °C (7732-18-5 water, distilled, conductivity or of similar purity) (water)
· **Lower and upper explosion limit**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Minimum ignition energy:**	
· **Flash point:**	Not applicable
· **Auto-ignition temperature:**	520 °C (acrylic polymere) Not applicable
· **Decomposition temperature:**	Not determined.
· **pH**	Not determined.
· **Viscosity:**	
· **Kinematic viscosity at 20 °C**	12 s (DIN 53211/4)
· **dynamic:**	Not determined.
· **Solubility**	
· **Water:**	Fully miscible
· **Partition coefficient n-octanol/water (log value)**	See section 12
· **Vapour pressure at 20 °C:**	23.4 hPa (7732-18-5 water, distilled, conductivity or of similar purity) (water)
· **(50°C):**	
· **Vapour pressure at 50 °C:**	123 hPa
· **Density and/or relative density**	
· **Density at 20 °C**	1.04 g/cm³
· **Relative density**	Not determined.
· **Settled apparent density**	1 kg/m³
· **Vapour density**	Not determined.
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Fluid

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· **Important information on protection of health and environment, and on safety.**	
· **Explosive properties:**	Product is not explosive.
· **Organic solvents:**	
· **VOC (EU):**	0.0 g/l
· **VOC (%):**	0.0 %
· **Water:**	68.5 %
· **Solids content:**	31.5 %
· **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:**
Protect from frost.
Protect from heat and direct sunlight.
· **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 hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** No toxicological test data are available for the whole product.
· **LD/LC50 values that are relevant for classification:**
*5 vapour

1336-21-6 ammonia, aqueous solution		
Oral	LD_{50} Acute toxicity:	> 2,000 mg/kg
Dermal	LD_{50} Acute toxicity, dermal:	> 2,000 mg/kg
2682-20-4 2-methyl-2H-isothiazol-3-one		
Oral	LD_{50} Acute toxicity:	183 mg/kg (female rat)

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Dermal	LD_{50} Acute toxicity, dermal:	218 mg/kg (rabbit)
Inhalative	LC_{50} (4 h) Acute toxicity, inhalative:	0.53 mg/l (rat) *9

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Oral	LD_{50} Acute toxicity:	64 mg/kg (male rat)
Dermal	LD_{50} Acute toxicity, dermal:	87.12 mg/kg (canine, male)
Inhalative	LC_{50} (4 h) Acute toxicity, inhalative:	0.33 mg/l (rat, male/female) (OECD Guideline 403) *9

· **Skin corrosion/irritation**
Irritation may occur.
The product has not been tested. The statement has been derived from the properties of the individual components.

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Irritation of skin	Skin corrosion:	pos. (canine) (OECD Guideline 404)

· **Serious eye damage/irritation**
Irritation may occur.
The product has not been tested. The statement has been derived from the properties of the individual components.

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Irritation of eyes	Serious eye damage/irritation:	pos. (canine) (OECD Guideline 405) *10

· **Respiratory or skin sensitisation**
Sensitization possible by skin contact.
The product has not been tested. The statement has been derived from the properties of the individual components.

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

	Local Lymph Node Assay (LLNA)	pos. (mouse) (OECD Guideline 429)

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Sensitization	Skin sensitisation (maximizing test):	pos. (guinea pig)
	Mouse Local Lymph Node Assay (LLNA)	pos. (OECD Guideline 476)

· **Germ cell mutagenicity**

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

Chromosome Aberration Test	neg. (in vitro) (OECD Guideline 473) *
Mammalian Cell Gene Mutation Test	neg. (Chinese hamster ovary cells) (OECD Guideline 476) *

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Chromosome Aberration Test	pos. *
Micronucleustest	neg. (mouse, male/female) (OECD-Guideline 474)
Mutagenicity	neg. (Drosophila melanogaster) (OECD guideline 477)
Unscheduled DNA synthesis test	neg. (male rat) (OECD guideline 486)

· **Carcinogenicity**

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Carcinogenicity	neg.
NOAEL (Cancerogenicity)	17.2 mg/kg (rat, male/female) (OECD Guideline 453)

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· **Reproductive toxicity**

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Oral	NOAEL (Reproductive toxicity)	8 mg/kg (canine, female) (OECD Guideline 414) 2 mg/kg (maternal) (OECD Guideline 414)

· **STOT-single exposure** May cause respiratory irritation.

· **STOT-repeated exposure**

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Dermal	NOAEL	0.105 mg/kg bw/day (rat, male/female) *24
Inhalative	NOAEL	0.00034 mg/l (rat, male/female) (OECD Guideline 413) *15

· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **Additional toxicological information:**
· **Acute effects (acute toxicity, irritation and corrosivity)** No further relevant information available.
· **Sensitisation** Sensitization possible by skin contact.
· **Repeated dose toxicity** May cause an allergic skin reaction.
·
No toxicological test data are available for the whole product.

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

Ames test	neg. (Salmonella typhimurium) (OECD Guideline 471) *

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Ames test	pos. (Salmonella typhimurium) *

· **Developmental toxicity (teratogenicity)**

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Oral	NOAEL (Teratogenicity)	8 mg/kg (canine, female) (OECD Guideline 414)

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

2634-33-5 1,2-benzisothiazol-3(2H)-one

EC_{50} -Toxicity for daphnia	1.5 – 2.94 mg/l (daphnia (Daphnia magna)) (48 h)
ErC_{50}-Toxicity for algae (growth inhibition)	0.11 mg/l (Pseudokirchneriella subcapitata) (72 h)
EC_{50}	0.067 mg/l (Pseudokirchneriella subcapitata) (72 h)

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

EC_{50} -Toxicity for daphnia	0.87 mg/l (daphnia (Daphnia magna)) (48 h)
EC_{50}-Bacterial toxicity	2.3 mg/l (Pseudomonas putida) (16 h)

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LC_{50}-Fish toxicity	> 150 mg/l (zebrafish (Danio rerio)) (96h)
EC_{50}-Toxicity for algae	0.157 mg/l (Pseudokirchneriella subcapitata) (72h)
LC_{50}	12.4 mg/l (bluegill (Lepomis macrochirus)) (96 h)
	6 mg/l (rainbow trout (Salmo gairdneri)) (96 h)
NOEC (aquatic)	1.2 mg/l (daphnia (Daphnia magna)) (OECD 211) (21 d)
	0.21 mg/l (fish (not specified)) (OECD 211)
	0.0104 mg/l (Pseudokirchneriella subcapitata) (96h)

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

EC_{50}-Bacterial toxicity	4.5 mg/l (activated sludge) (OECD Guideline 209)
LC_{50}-Fish toxicity	0.19 mg/l (rainbow trout (Oncorhynchus mykiss)) (OECD Guideline 203) (96h)
ErC_{50}-Toxicity for algae (growth inhibition)	0.0273 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201) (72h)
	0.0052 mg/l (marine diatom (Skeletonema costatum)) (OECD Guideline 201) (48h)
LC_{50}-Toxicity for daphnia	0.16 mg/l (daphnia (Daphnia magna)) (OECD Guideline 202) (48h)
NOEC (aquatic)	0.1 mg/l (daphnia (Daphnia magna)) (21d)
	0.05 mg/l (rainbow trout (Oncorhynchus mykiss)) (OECD guideline 210) (14d)
	0.00049 mg/l (marine diatom (Skeletonema costatum)) (OECD Guideline 201) (48h)

· **12.2 Persistence and degradability**
No data on the mixture is available.

2634-33-5 1,2-benzisothiazol-3(2H)-one

DOC Die-Away Test	80 % (activated sludge) (OECD 303 A; Activated Sludge Units) S 978
Zahn-Wellens-Test	(activated sludge) (OECD 302 B) COD elimination S 3509

· **Degree of elimination:**

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)

Biodegradability	47.1 – 55.8 % (28 days) (OECD guideline 301 B)

· **Behaviour in environmental systems:**
Water:
Fully miscible

· **12.3 Bioaccumulative potential** No further relevant information available.

· **Partition coefficient, n-octanol/water (log Pow):**

2634-33-5	1,2-benzisothiazol-3(2H)-one	0,7 (OECD 117)

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2634-33-5	1,2-benzisothiazol-3(2H)-one	0,7
2682-20-4	2-methyl-2H-isothiazol-3-one	-0,32
55965-84-9	reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)	0,326

· **Bioconcentration factor (BCF):**

2634-33-5 1,2-benzisothiazol-3(2H)-one	
Bioconcentration factor (BCF):	6.95 (fish (not specified)) (OECD Guideline 305) S 2243
55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)	
Bioconcentration factor (BCF):	< 500 (bluegill (Lepomis macrochirus)) (OECD Guideline 305 E) (28d)

· **12.4 Mobility in soil**

55965-84-9 reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1)	
Partition coefficient soil/water	28 (estimated)

· **12.40.23.1 Partition coefficient, soil organic carbon/water (log Koc):** No data available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
· **12.7 Other adverse effects**

· **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**

2634-33-5 1,2-benzisothiazol-3(2H)-one	
EC_{50}-Bacterial toxicity	13 mg/l (activated sludge) (OECD Guideline 209) (3h) S 2747
	0.4 mg/l (Pseudomonas putida) (Noack, BPZ59991) (16 h)
EC_{20}-Bacterial toxicity	3.3 mg/l (activated sludge) (OECD Guideline 209) (3 h) S 2747
2682-20-4 2-methyl-2H-isothiazol-3-one	
EC_{50}-Bacterial toxicity	31.7 mg/l (activated sludge) (3 h)

· **Additional ecological information:**
· **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**
Contains no adsorbable organically bound halogens (AOX)
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Avoid transfer into the environment.
Do not allow product to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
None disposal into waste water.
· **Waste disposal key number:**
For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

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· ***European waste catalogue***
NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).
08 01 12
Waste generated from production, formulation, application and removal of paints and varnishes - waste paint and varnish other than those mentioned in 08 01 11.
Please check the waste code from the origin in your company.
NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

· ***Uncleaned packagings:***
· ***Recommendation:***
Disposal must be made according to official regulations.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
· ***Recommended cleaning agent:*** *Water, if necessary with cleaning agent.*

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*
· ***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.*
· ***14.7 Maritime transport in bulk according to IMO instruments***	*Not applicable.*
· ***Transport/Additional information:***	
· ***ADR***	
· ***Limited quantities (LQ)***	-
· ***Excepted quantities (EQ)***	*NOT SUBJECT TO ADR*
· ***Transport category***	-
· ***Tunnel restriction code***	-
· ***IMDG***	
· ***Limited quantities (LQ)***	-
· ***Excepted quantities (EQ)***	*Code: -*
· ***UN "Model Regulation":***	*Void*

SECTION 15: Regulatory information

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

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· **Hazard-determining components of labelling:**
2-methyl-2H-isothiazol-3-one
1,2-benzisothiazol-3(2H)-one
reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)
· **Hazard statements**
H317 May cause an allergic skin reaction.
· **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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

· **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.

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
Wasser	50 – 100
III	≤ 0.5

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

· **Other regulations, limitations and prohibitive regulations**
TRGS 401 "Risks resulting from skin contact - identification, assessment, measures"
TRGS 500: "precautions: minimum standards"
TRGS 600 "Substitution"
TRGS 510 "Storage of hazardous substances in non-stationary containers "
Directive 2012/18/EU

· **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.

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SECTION 16: Other information

These data are based on our present knowledge. However, they 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.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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)
ISO: International Organisation for Standardisation
EC (Half maximal effective concentration): a measure of the concentration of a drug, antibody or toxicant which induces a biological response halfway between the baseline and maximum after a specified exposure time.
ErC : concentration of a drug, antibody or toxicant which inhibits the growth of plants or algae
PNEC (Predicted No-EffectConcentration)
LC : lethal concentration for 50 percent of the animals, bacteria or plants used for testing
LD : lethal dose for 50 percent of the animals used for testing
bw: bodyweight
Langz., Langzeit: chronical exposure,
akut: acute (exposure)
lokal: local effects
system., systemisch: systemic effects
LC_{50} : lethal concentration for 0 percent of the animals, bacteria or plants used for testing
LD_{50} : lethal dose for 0 percent of the animals, bacteria or plants used for testing
nb / n.b. : not determined
gamete mutagenic. : gamete/germ cell mutagenicity
carcinogen. : carcinogeniticity
theoret. O -Bedarf: theoretical oxigen demand
AOX: adsorbable organically bound halogens
TRGS: technische Regeln für Gefahrstoffe (technical rules for dealing with dangerous substances)
Merkblatt BG-Chemie: datasheet of the "Berufsgenossenschaft Rohstoffe und chemische Industrie" (former: "Berufgenossenschaft Chemie") (German insurance in case of accidents at work)
Langz., Langzeit: Long-term exposure
akut: Acute / short-term exposure
systemisch: systemic
lokal: local
n.a.: not applicable
(derived fr.data f.similar substances,intern.rep.) = derived from data from tests with similar substances, internal reports, not published
Vert.koeff.Bod./Wass = Partition Coefficient soil / water

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n.v.: no data available
Susp.: suspension
H: the product is skin-resorbing
Algentoxizität: toxicity for algae
Bakterientoxizität: toxicity for bacteria
Daphnientoxizität: toxicity for Daphnia
Fischtoxizität: toxicity for fishes
biologische Abbaubarkeit: Biodegradation
DOC: dissolved organic carbon
Halbwertszeit: half-life
h: hour(s)
d: day(s)
w: week(s)
m: montht(s)
y: year(s)
DIN: Norm des Deutschen Instituts für Normung = standard of the German Institute for Standardization
EN: Europäische Norm = standard of the European Committee for Standardization (CEN)
OECD: OECD Test Guideline
pos. : positive
neg. : negative
inh., inhal. : inhalative
NOEC (No Observed Effect Concentration),
NOEL (No Observed Effect Level),
NOAEL (No Observed Adverse Effect Level): denotes the level of exposure of an organism at which there is no effect in the exposed population.
NOELR (No-Observed-Effect-Loading Rate)
ATE (Acute Toxicity Estimates)
PBT: Persistent, bioaccumulative and toxic substances
vPvB: chemical substance(which is very persistent (vP) and very bioaccumulative (vB)
DNEL (Derived No-Effect Level) level of exposure to a substance above which humans should not be exposed.
PNEC (Predicted No-Effect Concentration) concentration of a chemical which marks the limit at which below no adverse effects of exposure in an ecosystem are measured.
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
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
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
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
· **Sources** *http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp*