

KORALAN AUSSENFARBE

 Version number: GHS 5.0
 Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

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

1.1 Product identifier

Trade name	Koralan Außenfarbe
Registration number (REACH)	not relevant (mixture)

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

Relevant identified uses	Paint, coating and lacquer
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1.3 Details of the supplier of the safety data sheet

 Kurt Obermeier GmbH
 Berghäuser Str. 70
 57319 Bad Berleburg
 Germany

 Telephone: +49 2751 5240
 Telefax: +49 2751 5041
 e-mail: info@obermeier.de
 Website: www.obermeier.de

e-mail (competent person)	sdb@obermeier.de
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1.4 Emergency telephone number

Name	Telephone
24h	+49 (0) 70024112112 (KOR) ; +1 872 5888271 (KOR)

1.4.4 Language(s) of the phone service	multilingual information
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word	not required
- Pictograms	not required
- Hazard statements	
H412	Harmful to aquatic life with long lasting effects.

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P273	Avoid release to the environment.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Supplemental hazard information

EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one, othilinone (ISO). May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

Results of PBT and vPvB assessment

 This mixture does not contain any substances that are assessed to be a PBT or a vPvB $\geq 0,1\%$.

Endocrine disrupting properties

 Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Substance register	Specific Conc. Limits	M-Factors
Titanium dioxide	CAS No 13463-67-7 EC No 236-675-5 Index No 022-006-00-2 REACH Reg. No 01- 2119489379- 17-xxxx	< 10	Carc. 2 / H351			
Quartz (SiO ₂)	CAS No 14808-60-7 EC No 238-878-4	< 5	STOT RE 1 / H372			
3-iodo-2-propynyl butylcarbamate	CAS No 55406-53-6 EC No 259-627-5 Index No 616-212-00-7 REACH Reg. No	< 0,25	Acute Tox. 4 / H302 Acute Tox. 3 / H331 Eye Dam. 1 / H318 Skin Sens. 1 / H317 STOT RE 1 / H372 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410			M-factor (acute) = 10 M-factor (chronic) = 1

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Name of substance	Identifier	Wt%	Classification acc. to GHS	Substance register	Specific Conc. Limits	M-Factors
	01- 2120762115- 60-xxxx					
1,2-benzisothiazol-3(2H)-one	CAS No 2634-33-5 EC No 220-120-9 Index No 613-088-00-6 REACH Reg. No 01- 2120761540- 60-xxxx	< 0,036	Acute Tox. 4 / H302 Acute Tox. 2 / H330 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		Skin Sens. 1A; H317: C ≥ 0,036 %	M-factor (chronic) = 1
Pyrithione zinc	CAS No 13463-41-7 EC No 236-671-3 Index No 613-333-00-7 REACH Reg. No 01- 2119511196- 46-xxxx	< 0,036	Acute Tox. 3 / H301 Acute Tox. 2 / H330 Eye Dam. 1 / H318 Repr. 1B / H360D STOT RE 1 / H372 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410			M-factor (acute) = 1.000 M-factor (chronic) = 10
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No 55965-84-9 Index No 613-167-00-5 REACH Reg. No 01- 2120764691- 48-xxxx	< 0,0015	Acute Tox. 3 / H301 Acute Tox. 2 / H310 Acute Tox. 2 / H330 Skin Corr. 1C / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		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 %	M-factor (acute) = 100 M-factor (chronic) = 100
octhilineone (ISO)	CAS No 26530-20-1 EC No 247-761-7 Index No 613-112-00-5 REACH Reg. No 01- 2120768921- 45-xxxx	< 0,0015	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 2 / H330 Skin Corr. 1 / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		Skin Sens. 1A; H317: C ≥ 0,0015 %	M-factor (acute) = 100 M-factor (chronic) = 100

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

 Hazardous ingredients: **ATE**

Name of substance	ATE	Exposure route
Titanium dioxide	>10.000 mg/kg >10.000 mg/kg >6,82 mg/l/4h	oral dermal inhalation: dust/mist
3-iodo-2-propynyl butylcarbamate	1.795 mg/kg >0,5 mg/l/4h	oral inhalation: dust/mist
1,2-benzisothiazol-3(2H)-one	450 mg/kg 0,21 mg/l/4h	oral inhalation: dust/mist
Pyrithione zinc	221 mg/kg 0,14 mg/l/4h	oral inhalation: dust/mist
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	64 mg/kg 87,12 mg/kg 0,5 mg/l/4h 0,33 mg/l/4h	oral dermal inhalation: vapour inhalation: dust/mist
octhiline (ISO)	125 mg/kg 311 mg/kg 0,5 mg/l/4h 0,27 mg/l/4h	oral dermal inhalation: vapour inhalation: dust/mist

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. Remove victim out of the danger area. Do not leave affected person unattended.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or if you feel unwell, seek medical advice immediately (show the label or safety data sheet where possible). Provide fresh air.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Alcohol resistant foam, Water spray, Water mist, BC-powder, Sand

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture**Hazardous combustion products**Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)**5.3 Advice for firefighters**

In case of fire toxic gases may be formed. In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Collect contaminated firefighting water separately.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

For emergency responders

Use personal protection equipment. Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up**Advice on how to contain a spill**

Take up mechanically, Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Recommendations**

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Advice on general occupational hygiene

Avoid contact with skin and eyes. Wash hands after use. Keep away from food, drink and animal feedingstuffs. Never place chemicals in containers that are normally used for food or drink.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, well-ventilated place. Keep only in original container.

Protect against external exposure, such as

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Frost

**Storage class (LGK)
TRGS 510**

LGK 12 (non-combustible liquids)

7.3 Specific end use(s)

Industry or sector specific available guidance(s)

GISCODE: BSW30 Beschichtungsstoffe, wasserbasiert, lösemittelhaltig.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
DE	pyrithione zinc	13463-41-7	MAK							H	DFG
DE	titanium dioxide	13463-67-7	MAK		0,3		2,4			r, multi-density, ex-uf-dust	DFG
DE	2-n-octyl-2,3-dihydroisothiazol-3-one	26530-20-1	MAK		0,05		0,1			i, H	DFG
DE	2-octyl-2H-isothiazol-3-one	26530-20-1	AGW		0,05		0,1			i, H, Y	TRGS 900
DE	3-iodo-2-propynyl butylcarbamate	55406-53-6	AGW	0,005	0,058	0,01	0,116			va, Sh, Y	TRGS 900
DE	3-iodo-2-propynyl butylcarbamate	55406-53-6	MAK	0,005	0,058	0,01	0,116			va	DFG
DE	reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	MAK		0,2		0,4			i	DFG
EU	crystalline silica	14808-60-7	IOELV		0,1					dust, r	2017/23 98/EU

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
dust	as dust
ex-uf-dust	except ultrafine particles
H	absorbed through the skin
i	inhalable fraction
multi-density	multiplied by the material density
r	respirable fraction
Sh	skin-sensitising substances
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Notation

va as vapours and aerosols

Y a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Relevant DNELs of components of the mixture

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
3-iodo-2-propynyl butylcarbamate	55406-53-6	DNEL	0,023 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
3-iodo-2-propynyl butylcarbamate	55406-53-6	DNEL	0,07 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
3-iodo-2-propynyl butylcarbamate	55406-53-6	DNEL	1,16 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
3-iodo-2-propynyl butylcarbamate	55406-53-6	DNEL	1,16 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
3-iodo-2-propynyl butylcarbamate	55406-53-6	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1,2-benzisothiazol-3(2H)-one	2634-33-5	DNEL	6,81 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1,2-benzisothiazol-3(2H)-one	2634-33-5	DNEL	0,966 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1,2-benzisothiazol-3(2H)-one	2634-33-5	DNEL	1,2 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
1,2-benzisothiazol-3(2H)-one	2634-33-5	DNEL	0,345 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Pyrithione zinc	13463-41-7	DNEL	0,01 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	DNEL	0,02 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	DNEL	0,04 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	DNEL	0,02 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	DNEL	0,04 mg/m ³	human, inhalatory	consumer (private households)	acute - local effects
reaction mass of 5-chloro-2-methyl-2H-	55965-84-9	DNEL	0,09 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)						
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	DNEL	0,11 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Relevant PNECs of components of the mixture

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
3-iodo-2-propynyl butylcarbamate	55406-53-6	PNEC	0,001 mg/l	aquatic organisms	freshwater	short-term (single instance)
3-iodo-2-propynyl butylcarbamate	55406-53-6	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
3-iodo-2-propynyl butylcarbamate	55406-53-6	PNEC	0,44 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3-iodo-2-propynyl butylcarbamate	55406-53-6	PNEC	0,017 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3-iodo-2-propynyl butylcarbamate	55406-53-6	PNEC	0,002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3-iodo-2-propynyl butylcarbamate	55406-53-6	PNEC	0,005 mg/kg	terrestrial organisms	soil	short-term (single instance)
1,2-benzisothiazol-3(2H)-one	2634-33-5	PNEC	4,03 µg/l	aquatic organisms	freshwater	short-term (single instance)
1,2-benzisothiazol-3(2H)-one	2634-33-5	PNEC	0,403 µg/l	aquatic organisms	marine water	short-term (single instance)
1,2-benzisothiazol-3(2H)-one	2634-33-5	PNEC	1,03 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,2-benzisothiazol-3(2H)-one	2634-33-5	PNEC	49,9 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,2-benzisothiazol-3(2H)-one	2634-33-5	PNEC	4,99 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
1,2-benzisothiazol-3(2H)-one	2634-33-5	PNEC	3 mg/kg	terrestrial organisms	soil	short-term (single instance)
Pyrithione zinc	13463-41-7	PNEC	0,01 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Pyrithione zinc	13463-41-7	PNEC	0,009 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Pyrithione zinc	13463-41-7	PNEC	0,009 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Pyrithione zinc	13463-41-7	PNEC	1,02 mg/kg	terrestrial organisms	soil	short-term (single in-

KORALAN AUSSENFARBE

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
						stance)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	PNEC	3,39 µg/l	aquatic organisms	freshwater	short-term (single instance)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	PNEC	3,39 µg/l	aquatic organisms	marine water	short-term (single instance)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	PNEC	0,23 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	PNEC	0,027 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	PNEC	0,027 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	PNEC	0,01 mg/kg	terrestrial organisms	soil	short-term (single instance)
octhiline (ISO)	26530-20-1	PNEC	2,2 µg/l	aquatic organisms	freshwater	short-term (single instance)
octhiline (ISO)	26530-20-1	PNEC	0,22 µg/l	aquatic organisms	marine water	short-term (single instance)
octhiline (ISO)	26530-20-1	PNEC	47,5 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
octhiline (ISO)	26530-20-1	PNEC	4,75 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
octhiline (ISO)	26530-20-1	PNEC	8,2 µg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Appropriate engineering controls

Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air exchange.

Individual protection measures (personal protective equipment)

Eye/face protection

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Use safety goggle with side protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned together with the supplier of these gloves.

- Type of material

IIR: isobutene-isoprene (butyl) rubber, NBR: acrylonitrile-butadiene rubber

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Usually no personal respiratory protection necessary, during spraying wear suitable respiratory equipment, P3 (filters at least 99,95 % of airborne particles, colour code: White)

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	various
Odour	faintly perceptible
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	ca. 8,6

Solubility(ies)

Water solubility	miscible in any proportion
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Partition coefficient

Partition coefficient n-octanol/water (log value)	not determined
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Vapour pressure	not determined
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KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Density and/or relative density

Density	ca. 1,15 – 1,34 g/cm ³ at 25 °C
Relative vapour density	information on this property is not available

Particle characteristics	(liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
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Other safety characteristics

Miscibility	Completely miscible with water.
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SECTION 10: Stability and reactivity
10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)
Acute toxicity

The classification criteria for these hazard classes are not met.

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Titanium dioxide	13463-67-7	oral	>10.000 mg/kg
Titanium dioxide	13463-67-7	dermal	>10.000 mg/kg
Titanium dioxide	13463-67-7	inhalation: dust/mist	>6,82 mg/l/4h
3-iodo-2-propynyl butylcarbamate	55406-53-6	oral	1.795 mg/kg
3-iodo-2-propynyl butylcarbamate	55406-53-6	inhalation: dust/mist	>0,5 mg/l/4h
1,2-benzisothiazol-3(2H)-one	2634-33-5	oral	450 mg/kg
1,2-benzisothiazol-3(2H)-one	2634-33-5	inhalation: dust/mist	0,21 mg/l/4h
Pyrithione zinc	13463-41-7	oral	221 mg/kg
Pyrithione zinc	13463-41-7	inhalation: dust/mist	0,14 mg/l/4h
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	oral	64 mg/kg
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	dermal	87,12 mg/kg
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	inhalation: vapour	0,5 mg/l/4h
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	inhalation: dust/mist	0,33 mg/l/4h
octhilinone (ISO)	26530-20-1	oral	125 mg/kg
octhilinone (ISO)	26530-20-1	dermal	311 mg/kg
octhilinone (ISO)	26530-20-1	inhalation: vapour	0,5 mg/l/4h
octhilinone (ISO)	26530-20-1	inhalation: dust/mist	0,27 mg/l/4h

Skin corrosion/irritation

The classification criteria for this hazard class are not met.

Serious eye damage/eye irritation

The classification criteria for this hazard class are not met.

Respiratory or skin sensitisation

Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one, octhilinone (ISO). May produce an allergic reaction.

Germ cell mutagenicity

The classification criteria for this hazard class are not met.

Carcinogenicity

The classification criteria for this hazard class are not met.

Reproductive toxicity

The classification criteria for this hazard class are not met.

Specific target organ toxicity - single exposure

The classification criteria for this hazard class are not met.

Specific target organ toxicity - repeated exposure

The classification criteria for this hazard class are not met.

Aspiration hazard

The classification criteria for this hazard class are not met.

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

11.2 Information on other hazards

There is no additional information.

Endocrine disrupting properties

 Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.

Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
3-iodo-2-propynyl butyl-carbamate	55406-53-6	ErC50	0,1 mg/l	algae	120 h
3-iodo-2-propynyl butyl-carbamate	55406-53-6	EC50	44 mg/l	microorganisms	3 h
Pyrethione zinc	13463-41-7	EC50	29 µg/l	aquatic invertebrates	21 d
Pyrethione zinc	13463-41-7	ErC50	4,1 µg/l	algae	120 h
Pyrethione zinc	13463-41-7	EbC50	3 µg/l	algae	120 h
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	LC50	0,07 mg/l	fish	14 d
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	EC50	>0,18 mg/l	aquatic invertebrates	21 d
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	ErC50	45,6 µg/l	algae	120 h

12.2 Persistence and degradability

Degradability of components						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
3-iodo-2-propynyl butylcarbamate	55406-53-6	carbon dioxide generation	4 %	1 d		ECHA
Pyrethione zinc	13463-41-7	carbon dioxide generation	39 %	28 d		ECHA
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	carbon dioxide generation	38,8 %	29 d		ECHA

12.3 Bioaccumulative potential

The product has not been tested.

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
3-iodo-2-propynyl butylcarbamate	55406-53-6		2,81 (25 °C)	
1,2-benzisothiazol-3(2H)-one	2634-33-5		0,63 (pH value: 7, 10 °C)	
Pyrithione zinc	13463-41-7	8,28	0,9 (25 °C)	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	54	≥-0,34 – ≤0,63 (pH value: 7, 10 °C)	
octhilinone (ISO)	26530-20-1		2,61 (pH value: 7, 25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

None of the ingredients are listed. ≥ 0,1%.

12.6 Endocrine disrupting properties

None of the ingredients are listed ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal.

Waste treatment-relevant information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number	not subject to transport regulations
14.2 UN proper shipping name	not relevant
14.3 Transport hazard class(es)	none
14.4 Packing group	not assigned
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations
14.6 Special precautions for user	

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

 None of the ingredients are listed $\geq 0,1\%$

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name acc. to inventory	CAS No	No
Koralan Außenfarbe	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	substances in tattoo inks and permanent make-up		75
3-iodo-2-propynyl butylcarbamate	substances in tattoo inks and permanent make-up		75
octhiline (ISO)	substances in tattoo inks and permanent make-up		75
1,2-benzisothiazol-3(2H)-one	substances in tattoo inks and permanent make-up		75
Pyrithione zinc	toxic for reproduction		30
Pyrithione zinc	substances in tattoo inks and permanent make-up		75
Titanium dioxide	substances in tattoo inks and permanent make-up		75

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

 None of the ingredients are listed $\geq 0,1\%$

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		a)	
3-iodo-2-propynyl butylcarbamate		a)	
Pyrithione zinc		a)	
Pyrithione zinc		a)	
Titanium dioxide		a)	
Titanium dioxide		a)	
Quartz (SiO ₂)		a)	

Legend

a) Indicative list of the main pollutants

Regulation on drug precursors

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water 2 obviously hazardous to water hazard class)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

 3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

KORALAN AUSSENFARBE

 Version number: GHS 5.0
 Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

SECTION 16: Other information
Indication of changes (revised safety data sheet)

Indication of changes (revised safety data sheet)		
Section	Former entry (text/value)	Actual entry (text/value)
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification according to Regulation (EC) No 1272/2008 (CLP)
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)
2.1		The most important adverse physicochemical, human health and environmental effects: Spillage and fire water can cause pollution of watercourses.
2.2		- Hazard statements: change in the listing (table)
2.2		- Precautionary statements: change in the listing (table)
2.2		- Supplemental hazard information: change in the listing (table)
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB $\geq 0,1\%$.
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
3.2		Description of the mixture: change in the listing (table)
3.2		Hazardous ingredients: ATE
3.2		Hazardous ingredients: ATE: change in the listing (table)
3.2		Remarks: For full text of abbreviations: see SECTION 16
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components: change in the listing (table)
10.2	Chemical stability: The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	Chemical stability: See below "Conditions to avoid".
11.1	Classification according to GHS (1272/2008/EC, CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification according to GHS (1272/2008/EC, CLP)
11.1		Acute toxicity estimate (ATE) of components:

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Indication of changes (revised safety data sheet)		
Section	Former entry (text/value)	Actual entry (text/value)
		change in the listing (table)
11.1	Respiratory or skin sensitisation: Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-1,2-benzothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), octhilonone (ISO). May produce an allergic reaction.	Respiratory or skin sensitisation: Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one, octhilonone (ISO). May produce an allergic reaction.
11.2	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
12.1	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.	Toxicity: Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.
12.1		Aquatic toxicity (chronic) of components: change in the listing (table)
12.2	Persistence and degradability: Data are not available.	Persistence and degradability
12.2		Degradability of components: change in the listing (table)
12.3		Bioaccumulative potential of components: change in the listing (table)
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: None of the ingredients are listed. $\geq 0,1\%$.
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.	Endocrine disrupting properties: None of the ingredients are listed $\geq 0,1\%$.
15.1	Restrictions according to REACH, Annex XVII	Restrictions according to REACH, Annex XVII: None of the ingredients are listed $\geq 0,1\%$
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: None of the ingredients are listed	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: None of the ingredients are listed $\geq 0,1\%$
15.1		List of pollutants (WFD): change in the listing (table)

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/2398/EU	Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Abbr.	Descriptions of used abbreviations
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LGK	Lagerklasse (storage class according to TRGS 510, Germany)

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Abbr.	Descriptions of used abbreviations
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
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.

KORALAN AUSSENFARBE

Version number: GHS 5.0

Replaces version of: 27.11.2023 (GHS 4)

Revision: 03.07.2025

Code	Text
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Internal code

OBERMEIERIMP 4301070-00