

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name	Tectyl™ 5506W-I
Registration number (REACH)	not relevant (mixture)
Article number	TE24899

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

Relevant identified uses	Corrosion inhibitor
Uses advised against	Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

CorPro GmbH
Frankfurter Straße 63 - 69
65760 Eschborn
Germany

Telephone: 00496173 9373-0
e-mail: info@corpro.gmbh
Website: www.corpro.gmbh

1.4 Emergency telephone number

Emergency information service	+32 3575 5555 24 hours emergency 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
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16.

2.2 Label elements

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

- Signal word warning

- Pictograms

GHS07



- Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

- Precautionary statements

P280	Wear protective gloves/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.









- Supplemental hazard information

EUH208	Contains Sulfonic acids, petroleum, calcium salts, 1,2-benzisothiazol-3(2H)-one, 2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one. May produce an allergic reaction.
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2.3 Other hazards**Results of PBT and vPvB assessment**Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.**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	Pictograms
Hydrocarbon waxes (petroleum), oxidized	CAS No 64743-00-6 EC No 265-205-1 REACH Reg. No 01-2119972699-13-xxxx	5 – < 10	Eye Irrit. 2 / H319	
Sulfonic acids, petroleum, calcium salts	CAS No 61789-86-4 EC No 263-093-9 REACH Reg. No 01-2119488992-18-xxxx	1 – < 5	Skin Sens. 1B / H317	
2-dimethylaminoethanol	CAS No 108-01-0 EC No 203-542-8 REACH Reg. No 01-2119492298-24-xxxx	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335	  
1,2-benzisothiazol-3(2H)-one	CAS No 2634-33-5 EC No 220-120-9 Index No	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Aquatic Acute 1 / H400	  

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
	613-088-00-6 REACH Reg. No 01-2120761540-60-xxxx			
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	CAS No 55965-84-9 EC No 911-418-6 Index No 613-167-00-5	< 1	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	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Sulfonic acids, petroleum, calcium salts	Skin Sens. 1B; H317: C ≥ 10 %	-	-	
1,2-benzisothiazol-3(2H)-one	Skin Sens. 1; H317: C ≥ 0.05 %	M-factor (acute) = 10	670 mg/kg	oral
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.002 %	M-factor (acute) = 100 M-factor (chronic) = 100	100 mg/kg >50 mg/kg >0.5 mg/l/4h >0.05 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**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. If symptoms persist: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

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 and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. 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

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. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

Use local and general ventilation. Use only in well-ventilated areas.



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as
frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)
this information is not available

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Sulfonic acids, petroleum, calcium salts	61789-86-4	DNEL	11.75 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Sulfonic acids, petroleum, calcium salts	61789-86-4	DNEL	3.33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-dimethylamino-ethanol	108-01-0	DNEL	1.76 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-dimethylamino-ethanol	108-01-0	DNEL	5.28 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
2-dimethylamino-ethanol	108-01-0	DNEL	1.76 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-dimethylamino-ethanol	108-01-0	DNEL	13.53 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
2-dimethylamino-ethanol	108-01-0	DNEL	0.25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-dimethylamino-ethanol	108-01-0	DNEL	1.2 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
2-dimethylamino-ethanol	108-01-0	DNEL	100 µg/cm ²	human, dermal	worker (industry)	acute - local 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
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	DNEL	0.02 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-	55965-84-9	DNEL	0.04 mg/m ³	human, inhalatory	worker (industry)	acute - local effects



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1,2-thiazol-3-one						

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Sulfonic acids, petroleum, calcium salts	61789-86-4	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)
Sulfonic acids, petroleum, calcium salts	61789-86-4	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
Sulfonic acids, petroleum, calcium salts	61789-86-4	PNEC	1,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sulfonic acids, petroleum, calcium salts	61789-86-4	PNEC	226,000,000 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sulfonic acids, petroleum, calcium salts	61789-86-4	PNEC	226,000,000 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Sulfonic acids, petroleum, calcium salts	61789-86-4	PNEC	271,000,000 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-dimethylamino-ethanol	108-01-0	PNEC	0.066 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-dimethylamino-ethanol	108-01-0	PNEC	0.004 mg/l	aquatic organisms	marine water	short-term (single instance)
2-dimethylamino-ethanol	108-01-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-dimethylamino-ethanol	108-01-0	PNEC	0.246 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-dimethylamino-ethanol	108-01-0	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-dimethylamino-ethanol	108-01-0	PNEC	0.01 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)
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-	55965-84-9	PNEC	3.39 µg/l	aquatic organisms	freshwater	short-term (single instance)



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
1,2-thiazol-3-one						
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	PNEC	3.39 µg/l	aquatic organisms	marine water	short-term (single instance)
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	PNEC	0.23 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	PNEC	0.027 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	PNEC	0.027 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	PNEC	0.01 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls**Appropriate engineering controls**

General ventilation.

Individual protection measures (personal protective equipment)**Eye/face protection**

Wear eye/face 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 above together with the supplier of these gloves.

- Other protection measures

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

Respiratory protection

Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

Environmental exposure controls

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



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state	liquid
Colour	beige
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	100 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	>250 °C
Auto-ignition temperature	230 °C
Decomposition temperature	not relevant
pH (value)	9.5 – 10
Kinematic viscosity	300 mm ² /s at 20 °C
Dynamic viscosity	300 mPa s

Solubility(ies)

Water solubility	miscible in any proportion
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Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	23 hPa at 20 °C 123 hPa at 50 °C
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Density and/or relative density

Density	1 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (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.
Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

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

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. 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**

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
1,2-benzisothiazol-3(2H)-one	2634-33-5	oral	670 mg/kg
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	oral	100 mg/kg
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	dermal	>50 mg/kg
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	inhalation: vapour	>0.5 mg/l/4h
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	inhalation: dust/mist	>0.05 mg/l/4h

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Hydrocarbon waxes (petroleum), oxidized	64743-00-6	oral	LD50	>5,000 mg/kg	rat
Sulfonic acids, petroleum, calcium salts	61789-86-4	oral	LD50	>16,000 mg/kg	rat
Sulfonic acids, petroleum, calcium salts	61789-86-4	inhalation: dust/mist	LC50	>1.9 mg/l/4h	rat
Sulfonic acids, petroleum, calcium salts	61789-86-4	dermal	LD50	>5,000 mg/kg	rabbit



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
2-dimethylaminoethanol	108-01-0	oral	LD50	1,183 mg/kg	rat
1,2-benzisothiazol-3(2H)-one	2634-33-5	oral	LD50	670 mg/kg	rat
1,2-benzisothiazol-3(2H)-one	2634-33-5	dermal	LD50	>2,000 mg/kg	rat
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	oral	LD50	457 mg/kg	rat
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	inhalation: dust/mist	LC50	2.36 mg/l/4h	rat
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	dermal	LD50	660 mg/kg	rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Contains Sulfonic acids, petroleum, calcium salts, 1,2-benzisothiazol-3(2H)-one, 2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one. May produce an allergic reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbon waxes (petroleum), oxidized	64743-00-6	LL50	>100 mg/l	fish	96 h
Hydrocarbon waxes (petroleum), oxidized	64743-00-6	EL50	>100 mg/l	aquatic invertebrates	48 h



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Sulfonic acids, petroleum, calcium salts	61789-86-4	LL50	>10,000 mg/l	fish	96 h
Sulfonic acids, petroleum, calcium salts	61789-86-4	EC50	>1,000 mg/l	aquatic invertebrates	48 h
Sulfonic acids, petroleum, calcium salts	61789-86-4	ErC50	>1,000 mg/l	algae	72 h
2-dimethylaminoethanol	108-01-0	LC50	146.6 mg/l	fish	96 h
2-dimethylaminoethanol	108-01-0	EC50	98.37 mg/l	aquatic invertebrates	48 h
2-dimethylaminoethanol	108-01-0	ErC50	66.08 mg/l	algae	72 h
1,2-benzisothiazol-3(2H)-one	2634-33-5	LC50	16.7 mg/l	fish	96 h
1,2-benzisothiazol-3(2H)-one	2634-33-5	EC50	2.94 mg/l	aquatic invertebrates	48 h
1,2-benzisothiazol-3(2H)-one	2634-33-5	ErC50	150 µg/l	algae	72 h
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	LC50	0.19 mg/l	fish	96 h
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	EC50	0.16 mg/l	aquatic invertebrates	48 h
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	ErC50	19.9 µg/l	algae	72 h

Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbon waxes (petroleum), oxidized	64743-00-6	EC50	>1,000 mg/l	microorganisms	3 h
Sulfonic acids, petroleum, calcium salts	61789-86-4	EC50	>10,000 mg/l	microorganisms	3 h
1,2-benzisothiazol-3(2H)-one	2634-33-5	EC50	13 mg/l	microorganisms	3 h
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	LC50	0.07 mg/l	fish	14 d
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	EC50	>0.18 mg/l	aquatic invertebrates	21 d



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	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
Hydrocarbon waxes (petroleum), oxidized	64743-00-6	oxygen depletion	55 %	28 d		ECHA
2-dimethylaminoethanol	108-01-0	oxygen depletion	60.5 %	14 d		ECHA
1,2-benzisothiazol-3(2H)-one	2634-33-5	carbon dioxide generation	62 %	4 d		ECHA
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	carbon dioxide generation	38.8 %	29 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Hydrocarbon waxes (petroleum), oxidized	64743-00-6		>9.4	
2-dimethylaminoethanol	108-01-0		-0.55 (23 °C)	
1,2-benzisothiazol-3(2H)-one	2634-33-5	6.62	0.63 (pH value: 7, 10 °C)	
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	55965-84-9	54	≥-0.34 – ≤0.63 (pH value: 7, 10 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

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/packagegings

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

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**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**

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Tectyl™ 5506W-I	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
1,2-benzisothiazol-3(2H)-one	substances in tattoo inks and permanent make-up		R75	75
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one	substances in tattoo inks and permanent make-up		R75	75
Sulfonic acids, petroleum, calcium salts	substances in tattoo inks and permanent make-up		R75	75



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Legend

- R3
1. Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 2. Articles not complying with paragraph 1 shall not be placed on the market.
 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and
 - present an aspiration hazard and are labelled with H304.
 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
 - (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter fluid may lead to life threatening lung damage";
 - (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;
- R75
1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
 - (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitizer category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
 - (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
 - (ii) 0,01 % by weight, in all other cases;
 - (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
 - (i) "Rinse-off products";
 - (ii) "Not to be used in products applied on mucous membranes";
 - (iii) "Not to be used in eye products";
 - (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
 - (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
 2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
 3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
 4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
 - (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
 - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
 5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
 - (a) the statement "Mixture for use in tattoos or permanent make-up";
 - (b) a reference number to uniquely identify the batch;
 - (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descend-



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Legend

ing order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;

(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;

(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;

(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

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

none of the ingredients are listed

Deco-Paint Directive

VOC content	<20 %
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Industrial Emissions Directive (IED)

VOC content	<10 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

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
2-methyl-2,3-dihydro-1,2-thiazol-3-one; 5-chloro-2-methyl-2,3-dihydro-1,2-thiazol-3-one		a)	

Legend

a) Indicative list of the main pollutants

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

15.2 Chemical safety assessment

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



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

SECTION 16: Other information**Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
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
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
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
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
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
Flam. Liq.	Flammable liquid
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
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

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
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
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.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). 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
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Tectyl™ 5506W-I

Version number: GHS 1.0

Date of compilation: 2024-08-31

Disclaimer

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