

PREVENTION DE LA DEGRADATION DU TECK - STAB TECK - 2705041900



SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : PREVENTION DE LA DEGRADATION DU TECK - STAB TECK
Product code : 2705041900.
UFI : SMK0-508C-F00M-QPMY

1.2. Relevant identified uses of the substance or mixture and uses advised against
N/A

1.3. Details of the supplier of the safety data sheet

Registered company name : SOROMAP PEINTURES VERNIS.
Address : 1, RUE MAURICE MALLET Z.I. DE BELIGON.17300.ROCHEFORT SUR MER.FRANCE.
Telephone : 05.46.88.36.10. Fax : 05.46.88.36.15.
contact@soromap.com
www.soromap.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin sensitisation, Category 1 (Skin Sens. 1, H317).
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07



GHS09

Signal Word :

WARNING

Product identifiers :

EC 270-601-2 COBALT, BORATE NEODECANOATE COMPLEXES
EC 247-761-7 2-OCTYL-2H-ISOTHIAZOL-3-ONE
EC 911-418-6 REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND
2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

Hazard statements :

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

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Precautionary statements - Prevention :

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

Precautionary statements - Response :

P302 + P352	IF ON SKIN: Wash with plenty of water/...
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statements - Disposal :

P501	Dispose of contents/container by approved organization
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2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43-xxxx ETHANOL	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1]	0.1 \leq x % < 1
CAS: 13463-67-7 EC: 236-675-5 REACH: 01-2119489379-17 TITANIUM OXIDE		[1]	0.1 \leq x % < 1
CAS: 22464-99-9 EC: 245-018-1 REACH: 01-2119979088-21 HEXANOIC ACID, 2-ETHYL-, ZIRCONIUM SALT	GHS08 Wng Repr. 2, H361d	[2]	0.1 \leq x % < 1
CAS: 68457-13-6 EC: 270-601-2 REACH: 01-2119526957-25 COBALT, BORATE NEODECANOATE COMPLEXES	GHS07, GHS09, GHS08 Dgr Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT RE 1, H372 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		0.1 \leq x % < 1
CAS: 26530-20-1 EC: 247-761-7 2-OCTYL-2H-ISOTHIAZOL-3-ONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 100 Aquatic Chronic 1, H410 M Chronic = 100	[1]	0 \geq x % < 0.1

CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23 1,2-PROPANEDIOL		[1]	0 >= x % < 0.06
CAS: 108-01-0 EC: 203-542-8 REACH: 01-2119492298-24 ETHANOL, 2-(DIMETHYLAMINO)-	GHS06, GHS05, GHS02 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 3, H331 STOT SE 3, H335	[1]	0 >= x % < 0.005
CAS: 55965-84-9 EC: 911-418-6 REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 1, H330 Aquatic Acute 1, H400 M Acute = 100 Aquatic Chronic 1, H410 M Chronic = 100 EUH:071	B	0 >= x % < 0.001
CAS: 13463-41-7 EC: 236-671-3 REACH: 01-2119511196-46 BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC	GHS06, GHS05, GHS09, GHS08 Dgr Acute Tox. 3, H301 Eye Dam. 1, H318 Acute Tox. 1, H330 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 M Acute = 1000 Aquatic Chronic 1, H410 M Chronic = 10	[2]	0 >= x % < 0.0005

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 64-17-5 EC: 200-578-6 REACH: 01-2119457610-43-xxxx ETHANOL		inhalation: ATE = 116.9 mg/l 4h (vapours)
CAS: 13463-67-7 EC: 236-675-5 REACH: 01-2119489379-17 TITANIUM OXIDE		inhalation: ATE = 4.26 mg/l (dust/mist)
CAS: 26530-20-1 EC: 247-761-7 2-OCTYL-2H-ISOTHIAZOL-3-ONE	Skin Sens. 1A: H317 C>= 0.0015%	oral: ATE = 279 mg/kg BW
CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23 1,2-PROPANEDIOL		dermal: ATE = 21000 mg/kg BW oral: ATE = 26500 mg/kg BW

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CAS: 55965-84-9 EC: 911-418-6 REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)	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%	
CAS: 13463-41-7 EC: 236-671-3 REACH: 01-2119511196-46 BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC		oral: ATE = 269 mg/kg BW

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

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In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Germany - AGW (BAuA - TRGS 900, 08/08/2019) :

CAS	VME :	VME :	Excess	Notes
64-17-5		200 ppm 380 mg/m ³		4(II)
26530-20-1		0.05 E mg/m ³		2(I)

- France (INRS - ED984 / 2020-1546) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
64-17-5	1000	1900	5000	9500	-	84
13463-67-7	-	10	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm 1920 mg/m ³				
13463-67-7	4 mg/m ³				
57-55-6	10 mg/m ³				
108-01-0	2 ppm 7.4 mg/m ³	6 ppm 22 mg/m ³			

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)
(CAS: 55965-84-9)**Final use:**Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Final use:**Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Workers.**Inhalation.
Long term local effects.
0.02 mg of substance/m³Inhalation.
Short term local effects.
0.045 mg of substance/m³**Consumers.**Ingestion.
Long term systemic effects.
0.09 mg/kg body weight/dayIngestion.
Short term systemic effects.
0.11 mg/kg body weight/dayInhalation.
Long term local effects.
0.02 mg of substance/m³Inhalation.
Short term local effects.
0.04 mg of substance/m³

ETHANOL, 2-(DIMETHYLAMINO)- (CAS: 108-01-0)

Final use:Exposure method:
Potential health effects:**Workers.**Dermal contact.
Short term local effects.

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DNEL :	5 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	1.04 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term local effects.
DNEL :	80 µg of substance/cm ²
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	22 mg of substance/m ³
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	22 mg of substance/m ³
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	7.4 mg of substance/m ³
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	7.4 mg of substance/m ³

COBALT, BORATE NEODECANOATE COMPLEXES (CAS: 68457-13-6)

Final use:	Workers.
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	0.1695 mg of substance/m ³
Final use:	Consumers.
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	20 µg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	0.0267 mg of substance/m ³

HEXANOIC ACID, 2-ETHYL-, ZIRCONIUM SALT (CAS: 22464-99-9)

Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	6.49 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	32.97 mg of substance/m ³
Final use:	Consumers.
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.

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DNEL : 4.51 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 3.25 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 8.13 mg of substance/m3

TITANIUM OXIDE (CAS: 13463-67-7)

Final use: **Workers.**
Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 10 mg of substance/m3

Final use: **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 700 mg/kg body weight/day

ETHANOL (CAS: 64-17-5)

Final use: **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 343 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 1900 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 960 mg of substance/m3

Final use: **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 87 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 206 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 960 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 114 mg of substance/m3

Predicted no effect concentration (PNEC):

BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC (CAS: 13463-41-7)
Environmental compartment: Fresh water.

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PNEC :	0.00009 mg/l
Environmental compartment: PNEC :	Sea water. 0.00009 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.0095 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.0095 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 0.01 mg/l

**REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)
(CAS: 55965-84-9)**

Environmental compartment: PNEC :	Soil. 0.01 mg/kg
Environmental compartment: PNEC :	Fresh water. 3.39 µg/l
Environmental compartment: PNEC :	Sea water. 3.39 µg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.027 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.027 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 0.23 mg/l

ETHANOL, 2-(DIMETHYLAMINO)- (CAS: 108-01-0)

Environmental compartment: PNEC :	Soil. 0.018 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.066 mg/l
Environmental compartment: PNEC :	Sea water. 0.007 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.066 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.053 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l

COBALT, BORATE NEODECANOATE COMPLEXES (CAS: 68457-13-6)

Environmental compartment:	Soil.
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PNEC :	10.9 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.62 µg/l
Environmental compartment: PNEC :	Sea water. 2.36 µg/l
Environmental compartment: PNEC :	Fresh water sediment. 53.8 mg/kg
Environmental compartment: PNEC :	Marine sediment. 69.8 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 0.37 mg/l

TITANIUM OXIDE (CAS: 13463-67-7)

Environmental compartment: PNEC :	Soil. 100 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.184 mg/l
Environmental compartment: PNEC :	Sea water. 0.0184 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.193 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 1000 mg/kg
Environmental compartment: PNEC :	Marine sediment. 100 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 100 mg/l

ETHANOL (CAS: 64-17-5)

Environmental compartment: PNEC :	Soil. 0.63 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.96 mg/l
Environmental compartment: PNEC :	Sea water. 0.79 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 2.75 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 3.6 mg/kg
Environmental compartment:	Marine sediment.

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PNEC :	2.9 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 580 mg/l

8.2. Exposure controls**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****Physical state**

Physical state : Fluid liquid.

Colour

Unspecified

Odour

Odour threshold : Not stated.

Melting point

Melting point/melting range : Not specified.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not specified.

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Flammability (solid, gas) : Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

Flash point

Flash point interval : Not relevant.

Auto-ignition temperature

Self-ignition temperature : Not specified.

Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : Not stated.

Slightly basic.

pH (aqueous solution) : Not stated.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Dilutable.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Not relevant.

Density and/or relative density

Density : 1.04

Relative vapour density

Vapour density : Not stated.

9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

- nitrogen oxide (NO)

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- nitrogen dioxide (NO2)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

May cause an allergic reaction by skin contact.

11.1.1. Substances**Acute toxicity :**

BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC (CAS: 13463-41-7)

Oral route : LD50 = 269 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 2000 mg/kg
Species : Rabbit
Other guideline

Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

1,2-PROPANEDIOL (CAS: 57-55-6)

Oral route : LD50 = 26500 mg/kg

Dermal route : LD50 = 21000 mg/kg
Species : Rabbit

2-OCTYL-2H-ISOTHIAZOL-3-ONE (CAS: 26530-20-1)

Oral route : LD50 = 279 mg/kg

TITANIUM OXIDE (CAS: 13463-67-7)

Oral route : LD50 > 5000 mg/kg
Species : Rat
OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

Dermal route : LD50 > 10000 mg/kg
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 = 4.26 mg/l
OECD Guideline 403 (Acute Inhalation Toxicity)

ETHANOL (CAS: 64-17-5)

Oral route : LD50 > 10470 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Inhalation route (Vapours) : LC50 = 116.9 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

Skin corrosion/skin irritation :

TITANIUM OXIDE (CAS: 13463-67-7)

Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

ETHANOL (CAS: 64-17-5)

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation :

TITANIUM OXIDE (CAS: 13463-67-7)

Species : Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitisation :

1,2-PROPANEDIOL (CAS: 57-55-6)

Buchler Test :

Non-sensitiser.

Species : Others

TITANIUM OXIDE (CAS: 13463-67-7)

Local lymph node stimulation test :

Non-Sensitiser.

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity :

ETHANOL (CAS: 64-17-5)

Mutagenesis (in vitro) :

Negative.

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.

BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC (CAS: 13463-41-7)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.

Species : Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

TITANIUM OXIDE (CAS: 13463-67-7)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.

Species : Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.

With or without metabolic activation.

Carcinogenicity :

BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC (CAS: 13463-41-7)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

TITANIUM OXIDE (CAS: 13463-67-7)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 13463-67-7 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 64-17-5 : IARC Group 1 : The agent is carcinogenic to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity**12.1.1. Substances**

BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC (CAS: 13463-41-7)

Fish toxicity :

0.001 < LC50 <= 0.01 mg/l

Factor M = 100

Species : Pimephales promelas

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

Species : Daphnia magna

Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

0.0001 < EC50 <= 0.001 mg/l

Factor M = 1000

Species : Selenastrum capricornutum

EC50 mg/l

Factor M = 1

Species : Skeletonema costatum

NOEC = 0.00046 mg/l

Factor M = 10

Species : Skeletonema costatum

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)
(CAS: 55965-84-9)

Fish toxicity :

LC50 = 0.205 mg/l

Factor M = 1

Species : Oncorhynchus mykiss

Duration of exposure : 96 h

NOEC = 0.07 mg/l

Factor M = 1

Species : Pimephales promelas

Duration of exposure : 35 days

Crustacean toxicity :

EC50 = 0.13 mg/l

Factor M = 1

Species : Daphnia magna

Duration of exposure : 48 h

NOEC = 0.0518 mg/l

Factor M = 1

Species : Daphnia magna

Duration of exposure : 21 days

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Algae toxicity :	ECr50 = 0.0052 mg/l Factor M = 100 Species : Skeletonema costatum Duration of exposure : 48 h
	NOEC = 0.00049 mg/l Factor M = 100 Species : Skeletonema costatum Duration of exposure : 48 h
ETHANOL, 2-(DIMETHYLAMINO)- (CAS: 108-01-0)	
Fish toxicity :	LC50 = 81 mg/l Species : Pimephales promelas Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 98.77 mg/l Species : Daphnia magna Duration of exposure : 48 h
Algae toxicity :	ECr50 = 35 mg/l Species : Desmodesmus subspicatus Duration of exposure : 72 h
1,2-PROPANEDIOL (CAS: 57-55-6)	
Fish toxicity :	LC50 = 23800 mg/l Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 18340 mg/l Species : Ceriodaphnia dubia Duration of exposure : 48 h
Algae toxicity :	ECr50 = 19000 mg/l Duration of exposure : 72 h
2-OCTYL-2H-ISOTHIAZOL-3-ONE (CAS: 26530-20-1)	
Fish toxicity :	0.001 < LC50 <= 0.01 mg/l Factor M = 100 Duration of exposure : 96 h
	0,00001 < ECx <= 0,0001 mg/l Factor M = 100
HEXANOIC ACID, 2-ETHYL-, ZIRCONIUM SALT (CAS: 22464-99-9)	
Fish toxicity :	LC50 = 180 mg/l Species : Oryzias latipes Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 85.4 mg/l Species : Daphnia magna Duration of exposure : 48 h
Algae toxicity :	ECr50 = 49.3 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h

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ETHANOL (CAS: 64-17-5)

Fish toxicity :

LC50 = 14200 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 5012 mg/l
Species : Ceriodaphnia dubia
Duration of exposure : 48 hNOEC = 9.6 mg/l
Species : Daphnia magna
Duration of exposure : 7 days

Algae toxicity :

ECr50 = 275 mg/l
Species : Chlorella vulgaris
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

COBALT, BORATE NEODECANOATE COMPLEXES (CAS: 68457-13-6)

Fish toxicity :

LC50 = 1.5 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 9.2 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.551 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h

TITANIUM OXIDE (CAS: 13463-67-7)

Fish toxicity :

LC50 > 10000 mg/l
Species : Cyprinodon variegatus
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability**12.2.1. Substances**

BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC (CAS: 13463-41-7)

Biodegradability : Rapidly degradable.

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)
(CAS: 55965-84-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

ETHANOL, 2-(DIMETHYLAMINO)- (CAS: 108-01-0)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2-OCTYL-2H-ISOTHIAZOL-3-ONE (CAS: 26530-20-1)

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Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

COBALT, BORATE NEODECANOATE COMPLEXES (CAS: 68457-13-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

HEXANOIC ACID, 2-ETHYL-, ZIRCONIUM SALT (CAS: 22464-99-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

ETHANOL (CAS: 64-17-5)

Biodegradability : Rapidly degradable.

1,2-PROPANEDIOL (CAS: 57-55-6)

Chemical oxygen demand : DCO = 1.585 g/g

Five-day biochemical oxygen demand : DBO5 = 0.860 g/g

Biodegradability : Rapidly degradable.
DBO5/DCO = 0.54

12.3. Bioaccumulative potential

12.3.1. Substances

BIS (1-HYDROXY-2 (1H) - PYRIDINTHIONATO-O,S) ZINC (CAS: 13463-41-7)

Octanol/water partition coefficient : log K_{ow} = 0.9

Bioaccumulation : BCF = 50

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)
(CAS: 55965-84-9)

Octanol/water partition coefficient : log K_{ow} = 2.52

ETHANOL, 2-(DIMETHYLAMINO)- (CAS: 108-01-0)

Octanol/water partition coefficient : log K_{ow} = -0.55

1,2-PROPANEDIOL (CAS: 57-55-6)

Octanol/water partition coefficient : log K_{ow} = -0.5

Bioaccumulation : BCF = 0.09

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 3 : Extremely hazardous for water.

PREVENTION DE LA DEGRADATION DU TECK - STAB TECK - 2705041900**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 - ICAO/IATA 2021).

14.1. UN number or ID number

3082

14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(2-octyl-2h-isothiazol-3-one)

14.3. Transport hazard class(es)

- Classification :



9

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material :

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	-

Not subject to this regulation if Q ≤ 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	9	-	III	5 L	F-A. S-F	274 335 969	E1	Category A	-

Not subject to this regulation if Q ≤ 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197 A215	E1

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	9	-	III	Y964	30 kg G	-	-	A97 A158 A197 A215	E1
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Not subject to this regulation if Q ≤ 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(2-octyl-2h-isothiazol-3-one)

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

- Container information:

No data available.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBWs) :

WGK 3 : Extremely hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
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.
H360D	May damage the unborn child.
H361d	Suspected of damaging 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.

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H411 Toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
EC50 : The effective concentration of substance that causes 50% of the maximum response.
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.
Ex_x : The effective concentration of the substance that causes x% maximum reaction.
NOEC : The concentration with no observed effect.
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE : Acute Toxicity Estimate
BW : Body Weight
DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
CMR: Carcinogenic, mutagenic or reprotoxic.
UFI : Unique formulation identifier.
STEL : Short-term exposure limit
TWA : Time Weighted Averages
TMP : French Occupational Illness table
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS07 : Exclamation mark
GHS09 : Environment
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.