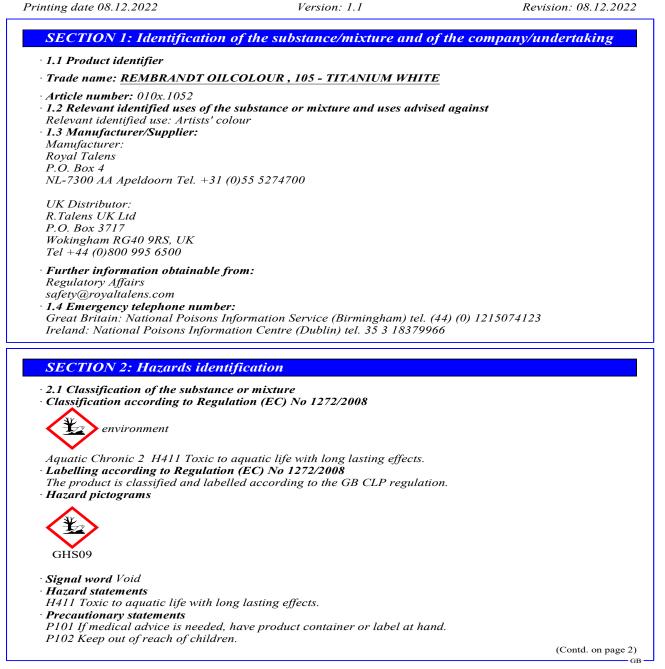
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Safety data sheet

according to 1907/2006/EC

Revision: 08.12.2022



Item Numbers: 00417-1014, 00417-1723

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# Safety data sheet

Version: 1.1

(Contd. of page 1) *P501 Dispose of contents/container in accordance with local/regional/national/international regulations.* • 2.3 Other hazards

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **VPVB:** Not applicable

#### **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

• Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous components:

CAS: 13	814-13-2	
EINECS	5: 215-22	2-5

zinc oxide 🚯 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 5-10%

Additional information: For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

4.1 Description of first aid measures

• After inhalation: Not applicable.

Reg.nr.: 01-2119463881-32-xxxx

- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents: Not relevant
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases/vapours is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### **SECTION 6:** Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

- · 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling No special precautions are necessary if used correctly.
 Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.

(Contd. on page 3)

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Item Numbers: 00417-1014, 00417-1723

Safety data sheet MSDS for #00417 - REMBRANDT OIL CLReccording to 1907/2006/EC

Printing date 08.12.2022

## Version: 1.1

Revision: 08.12.2022

7.3 Specific end use(s) No further relevant information available.  SECTION 8: Exposure controls/personal protection SI Control parameters Ingredients with limit values that require monitoring at the workplace: Ingredients with limit values that require monitoring at the workplace: Ingredients with limit values that require monitoring at the workplace: Ingredients with limit values that require monitoring at the workplace: Nore of the product does not contain any relevant quantities of materials with critical values that have to a monitored at the workplace.  DNELs  DNELs  DNELs  DNEL.long term (chronic) - systemic effects  DNEL.long term (chronic) - systemic effects  DNELs  DNELLong term (chronic) - systemic effects  DNEL,long term (chronic) - systemic effects  DNEL  DNEL.long term (chronic) - systemic effects  DNEC, as mg/m3 (Consumer)  Smg/m3 (Consumer)  NEC(Fresh water  D.0061 mg/ (aquatic organism)  NEC(fresh water sediment  17.8 mg/kg (aquatic organism)  NEC, fresh water sediment  17.8 mg/kg (aquatic organism)  NEC, sewage treatment plant  1.1 mg/kg (aquatic organism)  S Exposure controls  S Exposure controls  Individual protection measures, such as personal protective equipment General protection Not required.  SECTION 9: Physical and chemical properties  General Information on basic physical and chemical properties  General Information  Physical state  A Information on basic physical and chemical properties  General Information  Physical state  A Information on basic physical and chemical properties  General Information  Not applicable.  Second S	Storage cl	ass: -			(Contd. of page
A.1 Control parameters         Ingredients with limit values that require monitoring at the workplace:         The product does not contain any relevant quantities of materials with critical values that have to inonitored at the workplace.         DNELs         1314-13-2 zinc oxide         Daral       DNEL.long term (chronic) - systemic effects       0.83 mg/kg bw/day (Consumer)         Barnal       DNEL.long term (chronic) - systemic effects       2.3 mg/m3 (Consumer)         Barg/m3 (Employee)       3 mg/kg bw/day (Employee)         Inhalative       DNEL.long term (chronic) - systemic effects       2.5 mg/m3 (Consumer)         Smg/m3 (Employee)       5 mg/m3 (Employee)         PNECs       117.8 mg/kg (aquatic organism)         PNEC, fresh water       0.0206 mg/l (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, soil       35.6 mg/g (acquatic organism)			her relevant information	available.	
A.1 Control parameters         Ingredients with limit values that require monitoring at the workplace:         The product does not contain any relevant quantities of materials with critical values that have to inonitored at the workplace.         DNELs         1314-13-2 zinc oxide         Daral       DNEL.long term (chronic) - systemic effects       0.83 mg/kg bw/day (Consumer)         Barnal       DNEL.long term (chronic) - systemic effects       2.3 mg/m3 (Consumer)         Barg/m3 (Employee)       3 mg/kg bw/day (Employee)         Inhalative       DNEL.long term (chronic) - systemic effects       2.5 mg/m3 (Consumer)         Smg/m3 (Employee)       5 mg/m3 (Employee)         PNECs       117.8 mg/kg (aquatic organism)         PNEC, fresh water       0.0206 mg/l (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, soil       35.6 mg/g (acquatic organism)	<u> </u>				
Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to a monitored at the workplace. DNELs DNELs DIVEL s Data DNEL, long term (chronic) - systemic effects 0.83 mg/kg bw/day (Consumer) DNEL, long term (chronic) - systemic effects 83 mg/kg bw/day (Consumer) DNEL, long term (chronic) - systemic effects 2.5 mg/m3 (Consumer) S mg/m3 (Employee) PNECs Table S Table	SECTIO	N 8: Exposure c	ontrols/personal pro	ptection	
DNELs         1314-13-2 zinc oxide         Dermal       DNEL,long term (chronic) - systemic effects       8.3 mg/kg bw/day (Consumer)         Darmal       DNEL,long term (chronic) - systemic effects       8.3 mg/kg bw/day (Consumer)         Bargkg bw/day       Employee)       2.5 mg/m3 (Employee)         DNEL,long term (chronic) - systemic effects       2.5 mg/m3 (Employee)         1314-13-2 zinc oxide       5.5 mg/m3 (Employee)         PNEC, fresh water       0.0206 mg/l (aquatic organism)         PNEC, fresh water       0.0061 mg/l (aquatic organism)         PNEC, fresh water       0.0061 mg/l (aquatic organism)         PNEC, fresh water sediment       17.8 mg/kg (aquatic organism)         PNEC, fresh water sediment       5.5 mg/kg (aquatic organism)         PNEC, soil       35.6 mg/kg (aquatic organism)         S2.5 Exposure controls       0.1 mg/l (aquatic organism)         R2.5 Exposure controls       0.1 mg/l (aquatic organism)         R3.2 Exposure controls       0.1 mg/l (aquatic organism)         S3.5 mg/kg (aquatic organism)       8.2         S2.6 mg/kg (aquatic organism)       8.3         S.6 mg/kg (aquatic organism)       8.3         S.7 Exposure controls       0.1 mg/l (aquatic organism)         S.8 Exposure controls       0.1 mg/l (aquatic organism) <th><b>Ingredient</b> The produ</th> <th>t<mark>s with limit values t</mark> uct does not contai</th> <th></th> <th></th> <th>alues that have to b</th>	<b>Ingredient</b> The produ	t <mark>s with limit values t</mark> uct does not contai			alues that have to b
1314-13-2 zinc oxide         Oral       DNEL.long term (chronic) - systemic effects       0.83 mg/kg bw/day (Consumer)         Dermal       DNEL.long term (chronic) - systemic effects       83 mg/kg bw/day (Consumer)         Balance       83 mg/kg bw/day (Consumer)         Signg/kg bw/day (Consumer)       83 mg/kg bw/day (Consumer)         Signg/kg bw/day (Employee)       2.5 mg/m3 (Consumer)         Signg/kg bw/day (Employee)       5 mg/kg (aquatic organism)         PNEC, fresh water       0.0206 mg/l (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, marine water sediment       5.6 smg/kg (aquatic organism)         PNEC, soil       35.6 mg/kg (aquatic organism)         S2 Exposure controls       11 mg/l (aquatic organism)         Respiratory protection measures, such as personal protective equipment         General protection measures, such as personal protective equipment         General protection Not required.         Hand protection Not required.         Physical and chemical properties         General Information on basic physical and chemical properties         Physical state       Fluid         White       Undetermined.         Boiling point or initial boiling point and boiling       Not applicable.         Playsical state       Not		at the workplace.			
Draf       DNEL,long term (chronic) - systemic effects       0.83 mg/kg bw/day (Consumer)         Dermal       DNEL,long term (chronic) - systemic effects       83 mg/kg bw/day (Consumer)         Barg/kg bw/day (Consumer)       83 mg/kg bw/day (Consumer)         Barg/kg the day (Consumer)       83 mg/kg bw/day (Consurer) <t< td=""><td></td><td>-in a anida</td><td></td><td></td><td></td></t<>		-in a anida			
Dermal DNEL,long term (chronic) - systemic effects 83 mg/kg bw/day (Consumer) 83 mg/kg bw/day (Consumer) 8 mg/kg bw/day (Consurers 8 m				$0.92 \dots \sqrt{1-1} \sqrt{1-1} \sqrt{1-1}$	
83 mg/kg bw/day (Employee)         Inhalative       DNEL,long term (chronic) - systemic effects       2.5 mg/m3 (Consumer)         5 mg/m3 (Employee)         PNECs         1314-13-2 zinc oxide         PNEC, fresh water       0.0206 mg/l (aquatic organism)         PNEC, fresh water       0.0206 mg/l (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, marine water sediment       56.5 mg/kg (aquatic organism)         PNEC, soil       35.6 mg/kg (aquatic organism)         PNEC, sewage treatment plant       0.1 mg/l (aquatic organism)         S.2 Exposure controls       s.4 mad protection measures, such as personal protective equipment         General protection measures, such as personal protective equipment       of work.         Respiratory protection: Not required.       s.6 mg/kg (aquatic organism)         SECTION 9: Physical and chemical properties       General Information on basic physical and chemical properties         General Information       Fluid         Physical state       Fluid         Colour:       White         Odour:       Characteristic         Undetermined.       boiling point or initial boiling point and boiling         ange       >200 °C         Flammability       Not applicable.					
Inhalative       DNEL,long term (chronic) - systemic effects       2.5 mg/m3 (Consumer)         S mg/m3 (Employee)         PNECs         Signame       0.0206 mg/l (aquatic organism)         PNEC,fresh water       0.0061 mg/l (aquatic organism)         PNEC,fresh water       0.0061 mg/l (aquatic organism)         PNEC,fresh water       0.0061 mg/l (aquatic organism)         PNEC,fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC,soul       35.6 mg/kg (aquatic organism)         PNEC,sewage treatment plant       0.1 mg/l (aquatic organism)         S.2 Exposure controls       35.6 mg/kg (aquatic organism)         Individual protection measures, such as personal protective equipment         General protective and hygienic measures: Wash hands before breaks and at the end of work.         Respiratory protections       Not required.         Hand protection       Fluid         Venetration time of glove material Not applicable.       Eyeface protection Not required.         SECTION 9: Physical and chemical properties       General Information         Physical state       Fluid         Colour:       Characteristic         Melting point/freezing point:       Undetermined.         Boiling point or initial boiling point and boiling       >200 °C         Prianmability       <	Dermal	DNEL,long term (c	hronic) - systemic effects		
S mg/m3 (Employee)         PNECs         1314-13-2 zinc oxide         PNEC, fresh water       0.0206 mg/l (aquatic organism)         PNEC, fresh water       0.0061 mg/l (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, fresh water sediment       5.6 mg/kg (aquatic organism)         PNEC, soil       35.6 mg/kg (aquatic organism)         PNEC, sewage treatment plant       0.1 mg/l (aquatic organism)         PNEC, sewage treatment plant       0.1 mg/l (aquatic organism)         Steppiratory protection measures, such as personal protective equipment         General protective and hygienic measures: Wash hands before breaks and at the end of work.         Respiratory protection       Not required.         Wata       Stepface protection Not required.         Stepface protection not basic physical and chemical properties       General Information         General Information       Fluid         Otour:       Characteristic         Outor:       Characteristic         Outor:       Characteristic         Outor:       Characteristic					
PNECs       0.0206 mg/l (aquatic organism)         PNEC, fresh water       0.0061 mg/l (aquatic organism)         PNEC, fresh water       0.0061 mg/l (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, marine water sediment       56.5 mg/kg (aquatic organism)         PNEC, marine water sediment       56.5 mg/kg (aquatic organism)         PNEC, source controls       35.6 mg/kg (aquatic organism)         Individual protection measures, such as personal protective equipment         General protective and hygienic measures:       Wash hands before breaks and at the end of work.         Respiratory protection       Not required.         Hand protection       Not required.         Hand protection       Not required.         SECTION 9: Physical and chemical properties       General Information         Physical state       Fluid         Colour:       White         Odown:       Characteristic         Melting point/freezing point:       Undetermined.         Boiling point or initial boiling point and boiling       >200 °C         Flammability       Not applicable.         Lower:       Not determined.         Lower:       Not determined.         Cipper:       Not determined.         Polo °C <td>Inhalative</td> <td>DNEL,long term (c</td> <td>hronic) - systemic effects</td> <td></td> <td></td>	Inhalative	DNEL,long term (c	hronic) - systemic effects		
1314-13-2 zinc oxide         PNEC./resh water       0.0206 mg/l (aquatic organism)         PNEC./marine water       0.0061 mg/l (aquatic organism)         PNEC.marine water sediment       117.8 mg/kg (aquatic organism)         PNEC.marine water sediment       56.5 mg/kg (aquatic organism)         PNEC.soil       35.6 mg/kg (aquatic organism)         PNEC.soil       35.6 mg/kg (aquatic organism)         PNEC.sewage treatment plant       0.1 mg/l (aquatic organism)         S.2 Exposure controls       117.8 mg/kg (aquatic organism)         Radia protection measures, such as personal protective equipment         General protection: Not required.         Hand protection         Penetration time of glove material Not applicable.         Eyeface protection Not required.         SECTION 9: Physical and chemical properties         General Information         Physical state         Colour:       White         Colour:       Characteristic         Melting point or initial boiling point and boiling       Not applicable.         Lower:       Not applicable.         Lower:       Not determined.         Lower:       Not determined.         Lower:       Not determined.         Lower:       Not determined.         Lower				5 mg/m3 (Employee)	
PNEC fresh water       0.0206 mg/l (aquatic organism)         PNEC,marine water       0.0061 mg/l (aquatic organism)         PNEC,marine water sediment       117.8 mg/kg (aquatic organism)         PNEC,soil       35.6 mg/kg (aquatic organism)         PNEC,soil       0.1 mg/l (aquatic organism)         S2 Exposure controls       0.1 mg/l (aquatic organism)         Individual protection measures, such as personal protective equipment         General protection: Not required.         Hand protection         Hand protection         Penetration time of glove material Not applicable.         Eye/face protection Not required.         SECTION 9: Physical and chemical properties         General Information on basic physical and chemical properties         General Information         Physical state       Fluid         Colour:       Characteristic         Melting point or initial boiling point and boiling       >200 °C         Flammability       Not applicable.         Lower:       Not determined.         Lower:       Not determined.         Plaper:       Not determined.	PNECs				
PNEC, marine water       0.0061 mg/l (aquatic organism)         PNEC, fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC, soil       56.5 mg/kg (aquatic organism)         PNEC, soil       35.6 mg/kg (aquatic organism)         PNEC, sewage treatment plant       0.1 mg/l (aquatic organism)         PNEC, sewage treatment plant       0.1 mg/l (aquatic organism)         S.2 Exposure controls       10.1 mg/l (aquatic organism)         Individual protection measures, such as personal protective equipment       General protective and hygienic measures: Wash hands before breaks and at the end of work.         Respiratory protection: Not required.       Hand protection         Hand protection on basic physical and chemical properties       General Information on basic physical and chemical properties         Secriton V : Physical and chemical properties       General Information         Physical state       Fluid         Colour:       White         Odour:       Characteristic         Melting point/freezing point:       Undetermined.         Boiling point or initial boiling point and boiling       >200 °C         Flammability       Not applicable.         Lower:       Not determined.         Upper:       Not determined.         Plash point:       >100 °C         Decomposition temperatu	1314-13-2	zinc oxide			
PNEC fresh water sediment       117.8 mg/kg (aquatic organism)         PNEC,marine water sediment       56.5 mg/kg (aquatic organism)         PNEC,soil       35.6 mg/kg (aquatic organism)         PNEC,soil       35.6 mg/kg (aquatic organism)         PNEC,sowage treatment plant       0.1 mg/l (aquatic organism)         S2 Exposure controls       .11mg/l (aquatic organism)         Individual protection measures, such as personal protective equipment       General protection: Not required.         Hand protection       Not required.         Eye/face protection Not required.	PNEC,fres	h water	0.0206 mg/l (aquatic org	ganism)	
PNEC,marine water sediment       56.5 mg/kg (aquatic organism)         PNEC,soil       35.6 mg/kg (aquatic organism)         PNEC,sewage treatment plant       0.1 mg/l (aquatic organism)         8.2 Exposure controls       0.1 mg/l (aquatic organism)         Individual protective and hygienic measures: Wash hands before breaks and at the end of work.         Respiratory protection: Not required.         Hand protective and hygienic measures: Wash hands before breaks and at the end of work.         Respiratory protection: Not required.         Hand protection on the of glove material Not applicable.         Eye/face protection Not required.         SECTION 9: Physical and chemical properties         General Information         Physical state       Fluid         Colour:       White         Odour:       Characteristic         Melting point or initial boiling point and boiling       >200 °C         Flammability       Not applicable.         Lower:       Not determined.         Lower:       Not determined.         Flash point:       >100 °C         Decomposition temperature:       Not applicable.         Physicable.       Not applicable.         Wiscosity:       Not applicable.	PNEC,mar	rine water	0.0061 mg/l (aquatic org	ganism)	
PNEC,soil       35.6 mg/kg (aquatic organism)         PNEC,sewage treatment plant       0.1 mg/l (aquatic organism)         8.2 Exposure controls       Individual protection measures, such as personal protective equipment         General protection in consures: Wash hands before breaks and at the end of work.         Respiratory protection: Not required.         Hand protection         Penetration time of glove material Not applicable.         Eyeface protection Not required.         SECTION 9: Physical and chemical properties         General Information on basic physical and chemical properties         General Information         Physical state       Fluid         Colour:       White         Odour:       Characteristic         Melting point/reezing point:       Undetermined.         Boiling point or initial boiling point and boiling       >200 °C         Flammability       Not applicable.         Lower:       Not determined.         Upper:       Not determined.         Flash point:       >100 °C         Decomposition temperature:       Not applicable.         Viscosity:       Not applicable.	PNEC,fres	h water sediment	117.8 mg/kg (aquatic or	ganism)	
PNEC, sewage treatment plant       0.1 mg/l (aquatic organism)         8.2 Exposure controls         Individual protection measures, such as personal protective equipment         General protection measures: Wash hands before breaks and at the end of work.         Respiratory protection: Not required.         Hand protection         Penetration time of glove material Not applicable.         Eye/face protection Not required.         SECTION 9: Physical and chemical properties         General Information on basic physical and chemical properties         General Information         Physical state         Colour:       White         Odour:       Characteristic         Melting point or initial boiling point and boiling         range       >200 °C         Flammability       Not applicable.         Lower:       Not determined.         Upper:       Not determined.         Flash point:       >100 °C         Decomposition temperature:       Not determined.         OH       Not applicable.	PNEC,mar	rine water sediment	56.5 mg/kg (aquatic org	anism)	
8.2 Exposure controls Individual protection measures, such as personal protective equipment General protection measures: Wash hands before breaks and at the end of work. Respiratory protection: Not required. Hand protection Penetration time of glove material Not applicable. Eyeface protection Not required. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Physical state Fluid Colour: Characteristic Melting point or initial boiling point and boiling range >200 °C Flammability Not applicable. Lower and upper explosion limit Lower: Not determined. Upper: Not determined. Plash point: Not determined. Not applicable. Not applicable.	PNEC,soil	,	35.6 mg/kg (aquatic org	anism)	
8.2 Exposure controls Individual protection measures, such as personal protective equipment General protection measures: Wash hands before breaks and at the end of work. Respiratory protection: Not required. Hand protection Penetration time of glove material Not applicable. Eyeface protection Not required. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Physical state Fluid Colour: Characteristic Melting point or initial boiling point and boiling range >200 °C Flammability Not applicable. Lower and upper explosion limit Lower: Not determined. Upper: Not determined. Plash point: Not determined. Not applicable. Not applicable.	PNEC sou				
SECTION 9: Physical and chemical properties         General Information         Physical state       Fluid         Colour:       White         Odour:       Characteristic         Metting point/freezing point:       Undetermined.         Boiling point or initial boiling point and boiling       -200 °C         Flammability       Not applicable.         Lower and upper explosion limit       -200 °C         Flash point:       > 100 °C         Decomposition temperature:       Not determined.         of H       Not applicable.         Viscosity:       Not applicable.	8.2 Exposi Individual General pi	ure controls protection measure rotective and hygien	rs, such as personal proto ic measures: Wash hand	ective equipment	¢work.
9.1 Information on basic physical and chemical properties General Information Physical state Fluid Colour: White Odour: Characteristic Melting point/freezing point: Undetermined. Boiling point or initial boiling point and boiling range >200 °C Flammability Not applicable. Lower and upper explosion limit Lower: Not determined. Upper: Not determined. Flash point: >100 °C Decomposition temperature: Not determined. boH Not applicable. Viscosity: Kinematic viscosity Not applicable.	8.2 Exposi Individual General pr Respirator Hand prot Penetratio	ure controls protection measure rotective and hygien y protection: Not re ection n time of glove mat	<b>rs, such as personal prot</b> a ic measures: Wash hand quired. e <b>rial</b> Not applicable.	ective equipment	<sup>c</sup> work.
General InformationPhysical stateFluidColour:WhiteOdour:CharacteristicOdour:CharacteristicMelting point/freezing point:Undetermined.Boiling point or initial boiling point and boilingrange> 200 °CFlammabilityNot applicable.Lower and upper explosion limitLower:Not determined.Upper:Not determined.Flash point:> 100 °CDecomposition temperature:Not determined.offNot applicable.Viscosity:Not applicable.Kinematic viscosityNot applicable.	8.2 Exposi Individual General pr Respirator Hand prot Penetratio	ure controls protection measure rotective and hygien y protection: Not re ection n time of glove mat	<b>rs, such as personal prot</b> a ic measures: Wash hand quired. e <b>rial</b> Not applicable.	ective equipment	<sup>c</sup> work.
Physical stateFluidColour:WhiteOdour:CharacteristicOdour:CharacteristicMelting point/freezing point:Undetermined.Boiling point or initial boiling point and boilingrange> 200 °CFlammabilityNot applicable.Lower and upper explosion limitLower:Not determined.Upper:Not determined.Flash point:> 100 °CDecomposition temperature:Not determined.oHNot applicable.Viscosity:Not applicable.Kinematic viscosityNot applicable.	8.2 Exposi Individual General pi Respirator Hand prot Penetratio Eye/face p	are controls protection measure rotective and hygien y protection: Not re rection n time of glove mat rotection Not requir	<b>rs, such as personal prota ic measures:</b> Wash hand quired. e <b>rial</b> Not applicable. ed.	ective equipment Is before breaks and at the end of	fwork.
Colour:WhiteOdour:CharacteristicOdour:CharacteristicMelting point/freezing point:Undetermined.Boiling point or initial boiling point and boiling range> 200 °CFlammabilityNot applicable.Lower and upper explosion limitNot determined.Lower:Not determined.Lower:Not determined.Lower:Not determined.Lower:Not determined.Lower:Not determined.Upper:Not determined.Flash point:> 100 °CDecomposition temperature:Not determined.oHNot applicable.Viscosity:Kinematic viscosity	8.2 Exposi Individual General pr Respirator Hand prot Penetratio Eye/face p SECTIO 9.1 Inform	are controls protection measure rotective and hygien y protection: Not re ection n time of glove mate rotection Not requir <b>N 9: Physical an</b> nation on basic phys	<b>rs, such as personal prota ic measures:</b> Wash hand quired. e <b>rial</b> Not applicable. ed. <b>ad chemical properti</b>	ective equipment Is before breaks and at the end of es	fwork.
Odour:CharacteristicMelting point/freezing point:Undetermined.Boiling point or initial boiling point and boiling range> 200 °CFlammabilityNot applicable.Lower and upper explosion limit	8.2 Exposi Individual General pr Respirator Hand prot Penetratio Eye/face p SECTIO 9.1 Inform General In	are controls protection measure rotective and hygien y protection: Not re ection n time of glove mate rotection Not requir <b>PN 9: Physical ar</b> nation on basic phys aformation	rs, such as personal proto ic measures: Wash hand quired. erial Not applicable. ed. ad chemical propertion ical and chemical prope	ective equipment Is before breaks and at the end op es rties	fwork.
Boiling point or initial boiling point and boiling range>200 °CFlammabilityNot applicable.Lower and upper explosion limitNot determined.Lower:Not determined.Upper:Not determined.Flash point:>100 °CDecomposition temperature:Not determined.bHNot applicable.Viscosity:Not applicable.	8.2 Exposi Individual General pro Respirator Hand prot Penetratio Eye/face p SECTIO 9.1 Inform General In Physical si	are controls protection measure rotective and hygien y protection: Not re ection n time of glove mate rotection Not requir <b>PN 9: Physical ar</b> nation on basic phys aformation	rs, such as personal proto ic measures: Wash hand quired. erial Not applicable. ed. ad chemical propertion ical and chemical prope Flu	ective equipment Is before breaks and at the end of es rties	fwork.
range>200 °CFlammabilityNot applicable.Lower and upper explosion limitNot determined.Lower:Not determined.Upper:Not determined.Flash point:>100 °CDecomposition temperature:Not determined.oHNot applicable.Viscosity:Not applicable.	8.2 Exposi Individual General pr Respirator Hand prot Penetratio Eye/face p SECTIO S.1 Inform General In Physical si Colour: Odour:	ure controls protection measure rotective and hygien y protection: Not re ection n time of glove mat rotection Not requir NO 9: Physical an nation on basic phys offormation tate	rs, such as personal proto ic measures: Wash hand quired. erial Not applicable. red. id chemical propertion ical and chemical prope Flu Wh	ective equipment Is before breaks and at the end of es rties nid	<sup>c</sup> work.
FlammabilityNot applicable.Lower and upper explosion limitNot determined.Lower:Not determined.Upper:Not determined.Flash point:>100 °CDecomposition temperature:Not determined.oHNot applicable.Viscosity:Not applicable.	8.2 Exposi Individual General pi Respirator Hand prot Penetratio Eye/face p SECTIO 9.1 Inform General In Physical si Colour: Odour: Melting po	ure controls protection measure rotective and hygien y protection: Not re ection n time of glove mat rotection Not requir <b>N9: Physical an</b> nation on basic phys aformation tate	rs, such as personal prota ic measures: Wash hand quired. erial Not applicable. ed. ical and chemical propertion Flu Wh Ch Un	ective equipment Is before breaks and at the end of es rties uid nite aracteristic	<sup>c</sup> work.
Lower and upper explosion limitInterventionLower:Not determined.Upper:Not determined.Flash point:>100 °CDecomposition temperature:Not determined.pHNot applicable.Viscosity:Not applicable.Kinematic viscosityNot applicable.	8.2 Exposi Individual General pr Respirator Hand prot Penetratio Eye/face p SECTIO 9.1 Inform General In Physical si Colour: Odour: Melting po Boiling po	ure controls protection measure rotective and hygien y protection: Not re ection n time of glove mat rotection Not requir <b>N9: Physical an</b> nation on basic phys aformation tate	rs, such as personal prota ic measures: Wash hand quired. erial Not applicable. erd. ical and chemical propertion flu Wh Ch Un point and boiling	ective equipment Is before breaks and at the end of es es rties tid tite aracteristic determined.	<sup>c</sup> work.
Lower:Not determined.Upper:Not determined.Flash point:>100 °CDecomposition temperature:Not determined.pHNot applicable.Viscosity:Not applicable.Kinematic viscosityNot applicable.	8.2 Exposi Individual General pr Respirator Hand prot Penetratio Eye/face p SECTIO 9.1 Inform General In Physical su Colour: Odour: Odour: Doling po range	ure controls protection measure rotective and hygien y protection: Not re- ection n time of glove mata rotection Not requir <b>N 9: Physical an</b> nation on basic phys formation tate pint/freezing point: int or initial boiling	rs, such as personal prota ic measures: Wash hand quired. erial Not applicable. eed. ad chemical propertion ical and chemical prope Flu Wh Ch Un point and boiling >2	ective equipment ls before breaks and at the end of es rties uid nite aracteristic determined. 00 °C	<sup>c</sup> work.
Flash point:>100 °CDecomposition temperature:Not determined.pHNot applicable.Viscosity:Not applicable.Kinematic viscosityNot applicable.	8.2 Exposi Individual General pr Respirator Hand prof Penetratio Eye/face p SECTIO 9.1 Inform General In Physical st Colour: Odour: Melting po Boiling po Flammabi	ure controls protection measure rotective and hygien y protection: Not re- ection n time of glove mata- rotection Not requir <b>PN 9: Physical an</b> nation on basic physical formation tate pint/freezing point: int or initial boiling lity	s, such as personal proto ic measures: Wash hand quired. erial Not applicable. ed. ied chemical propertion ical and chemical prope Flu Wh Ch Un point and boiling >2 No	ective equipment ls before breaks and at the end of es rties uid nite aracteristic determined. 00 °C	<sup>c</sup> work.
Decomposition temperature:       Not determined.         pH       Not applicable.         Viscosity:       Not applicable.         Kinematic viscosity       Not applicable.	8.2 Exposi Individual General pr Respirator Hand prof Penetratio Eye/face p SECTIO 9.1 Inform General In Physical st Colour: Odour: Melting po Boiling po range Flammabi Lower and	ure controls protection measure rotective and hygien y protection: Not re- ection n time of glove mata- rotection Not requir <b>PN 9: Physical an</b> nation on basic physical formation tate pint/freezing point: int or initial boiling lity	s, such as personal proto ic measures: Wash hand quired. erial Not applicable. ed. ied chemical propertion ical and chemical prope Flu Wh Ch Un point and boiling >2 No nit	ective equipment Is before breaks and at the end of the end of es rties rties rtied aracteristic determined. 00 °C t applicable.	<sup>c</sup> work.
pH     Not applicable.       Viscosity:     Not applicable.       Kinematic viscosity     Not applicable.	8.2 Exposi Individual General prot Respirator Hand prot Penetratio Eye/face p SECTIO 9.1 Inform General In Physical si Colour: Odour: Odour: Melting po range Flammabi Lower ana Lower: Upper:	ure controls protection measure rotective and hygien y protection: Not re- ection n time of glove mat rotection Not requir <b>N 9: Physical an</b> nation on basic phys aformation tate pint/freezing point: int or initial boiling lity upper explosion lin	rs, such as personal proto ic measures: Wash hand quired. erial Not applicable. red. ical and chemical propertion ical and chemical prope Flu Wh Ch Un point and boiling > 2 No nit No No	ective equipment Is before breaks and at the end of sefore breaks and at the end of es es rties uid nite aracteristic determined. 00 °C t applicable. t determined. t determined. t determined.	<sup>c</sup> work.
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Kinematic viscosity Not applicable.	8.2 Exposi Individual General pi Respirator Hand prot Penetratio Eye/face p SECTIO 9.1 Inform General In Physical si Colour: Odour: Melting po range Flammabi Lower and Lower: Upper: Flash poin Decompos	ure controls protection measure rotective and hygien y protection: Not re- ection n time of glove mat rotection Not requir <b>PN 9: Physical an</b> nation on basic phys aformation tate pint/freezing point: int or initial boiling lity upper explosion lin	rs, such as personal proto ic measures: Wash hand quired. erial Not applicable. red. ical and chemical prope flu Wh Ch Un point and boiling > 2 No nit No > 1 No	ective equipment Is before breaks and at the end of sefore breaks and at the end of es rties rties uid nite aracteristic determined. 00 °C t applicable. t determined. t determined. t determined. t determined. t determined. t determined. t determined. t determined.	<sup>c</sup> work.
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Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	$2.05 \text{ g/cm}^3$
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
Form:	Pasty
Important information on protection of health an	d
environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Softening point/range	
Oxidising properties	No further relevant information available.
Evaporation rate	Not applicable.
Information with regard to physical hazard classe	25
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

## **SECTION 10: Stability and reactivity**

• 10.1 Reactivity Dangerous reactions are not expected if the product is handled according to its intended use.

• 10.2 Chemical stability Stable under recommended storage and handling conditions (see section 7).

- 10.3 Possibility of hazardous reactions
- Dangerous reactions are not expected if the product is handled according to its intended use.
- 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials:

Acids; Alkali (lyes)

Strong oxidising agents.

10.6 Hazardous decomposition products: No decomposition if used according to specifications.

### **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

· LD/LC50 values relevant for classification:

1314-13-2 zinc oxide

Oral LD50 >5,000 mg/kg (rat)

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11.2 Information on other hazards		
• Endocrine disrupting properties		
None of the ingredients is listed.		
SECTION 12: Ecological information	mation	
SECTION 12. Ecological injoin		
· 12.1 Toxicity		
Aquatic toxicity:		
1314-13-2 zinc oxide		
EC50, acute 0.137 mg/l (algae)		
0.413 mg/l (daphnia)		
NOEC, chronic 19 $\mu$ g/l (algae)		
82 μg/l (daphnia)		
12.2 Persistence and degradability No		
• 12.3 Bioaccumulative potential No fur • 12.4 Mobility in soil No further relevan		
· 12.5 Results of PBT and vPvB assessn		
• <b>PBT:</b> Not applicable.		
vPvB: Not applicable.		
• 12.6 Endocrine disrupting properties	es with endocrine disrupting properties.	
• 12.7 Other adverse effects	es with endocrine disrupting properties.	
• Additional ecological information:		
· General notes:		
	tion) (Self-assessment): hazardous for w	vater
Do not allow product to reach ground - Danger to drinking water if even small		
Also poisonous for fish and plankton in		
Toxic for aquatic organisms		
Toxic for aquatic organisms		
	wations	
Toxic for aquatic organisms SECTION 13: Disposal conside	rations	
	rations	
SECTION 13: Disposal conside	erations	
SECTION 13: Disposal conside		
SECTION 13: Disposal conside • 13.1 Waste treatment methods • Uncleaned packaging:		
SECTION 13: Disposal conside • 13.1 Waste treatment methods • Uncleaned packaging: • Recommendation: Disposal must be m	nade according to official regulations.	
SECTION 13: Disposal conside • 13.1 Waste treatment methods • Uncleaned packaging:	nade according to official regulations.	
SECTION 13: Disposal conside • 13.1 Waste treatment methods • Uncleaned packaging: • Recommendation: Disposal must be m SECTION 14: Transport inform • 14.1 UN number or ID number	nade according to official regulations. nation	
SECTION 13: Disposal conside • 13.1 Waste treatment methods • Uncleaned packaging: • Recommendation: Disposal must be m SECTION 14: Transport inform	nade according to official regulations.	
SECTION 13: Disposal conside • 13.1 Waste treatment methods • Uncleaned packaging: • Recommendation: Disposal must be m SECTION 14: Transport inform • 14.1 UN number or ID number • ADR, IMDG, IATA • 14.2 UN proper shipping name	nade according to official regulations. nation UN3082	
SECTION 13: Disposal conside · 13.1 Waste treatment methods · Uncleaned packaging: · Recommendation: Disposal must be m SECTION 14: Transport inform · 14.1 UN number or ID number · ADR, IMDG, IATA	nade according to official regulations. nation UN3082 3082 ENVIRONME	ENTALLY HAZARDOUS
SECTION 13: Disposal conside - 13.1 Waste treatment methods - Uncleaned packaging: - Recommendation: Disposal must be m SECTION 14: Transport inform - 14.1 UN number or ID number - ADR, IMDG, IATA - 14.2 UN proper shipping name - ADR	nade according to official regulations. nation UN3082 3082 ENVIRONME SUBSTANCE, LIQUID, N	I.O.S. (zinc oxide)
SECTION 13: Disposal conside • 13.1 Waste treatment methods • Uncleaned packaging: • Recommendation: Disposal must be m SECTION 14: Transport inform • 14.1 UN number or ID number • ADR, IMDG, IATA • 14.2 UN proper shipping name	nade according to official regulations. nation UN3082 3082 ENVIRONME SUBSTANCE, LIQUID, N ENVIRONMENTALLY	I.O.S. (zinc oxide) HAZARDOUS SUBSTANCE,
SECTION 13: Disposal conside - 13.1 Waste treatment methods - Uncleaned packaging: - Recommendation: Disposal must be m SECTION 14: Transport inform - 14.1 UN number or ID number - ADR, IMDG, IATA - 14.2 UN proper shipping name - ADR	nade according to official regulations. nation UN3082 3082 ENVIRONME SUBSTANCE, LIQUID, N ENVIRONMENTALLY LIQUID, N.O.S. (zinc oxid	I.O.S. (zinc oxide)

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<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
· ADR, IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles. 9
· 14.4 Packing group	None.
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances
Marin a nallestante	zinc oxide Symbol (fish and tree)
<ul> <li>Marine pollutant:</li> <li>Special marking (ADR):</li> </ul>	Symbol (fish and tree) Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an
	articles.
• Hazard identification number (Kemler code):	90
· EMS Number:	F-A,S-F
· Stowage Category	A
$\cdot$ 14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 50 mi Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
• Tunnel restriction code	E
·IMDG	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities ( $\widetilde{E}Q$ )	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
-	SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE), 9, III

## **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Printing date 08.12.2022 Version: 1.1 Revision: 08.12.2022 (Contd. of page 6) · Relevant phrases H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 \* \* Data compared to the previous version altered.