

# SCEP04702 - Saatitex PHU 2 red

Revision nr.10 Dated 21/09/2021

Printed on 21/09/2021 Page n. 1 / 12 Replaced revision:9 (Dated 20/11/2020)

## Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

SCEP04702 Code: Product name Saatitex PHU 2 red

Chemical name and synonym Water based polymer emulsion

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

Aqueous emulsion of water dispersible polymers, pigments and plasticizers for Intended use

screen printing.

1.3. Details of the supplier of the safety data sheet

Name SAATI S.P.A. Full address Via Milano, 14

District and Country 22070 Appiano Gentile (CO)

Italy

Tel. 0039.031.9711 Fax 0039.031.933.392

e-mail address of the competent person

responsible for the Safety Data Sheet info.it@saatichem.com

1.4. Emergency telephone number

For urgent inquiries refer to SAATI SPA - tel+39 0319711 - fax+39 031933392

CAV Ospedale Niguarda Milano tel+39 0266101029 CAV IRCCS Fond.Maugeri Pavia tel+39 038224444 CAV Policlinico Gemelli Roma tel+39 063054343 CAV Ospedale Cardarelli Napoli tel+39 0817472870

## **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

H412 Harmful to aquatic life with long lasting effects. Hazardous to the aquatic environment, chronic

toxicity, category 3

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words:

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

**EUH208** 5-Chloro-2-methyl-4-isothiazolin-3-one/2-methyl-2h-isothiazol-3-one

Glycerol, propoxilated, esters with acrylic acid

May produce an allergic reaction.

Precautionary statements:

P273 Avoid release to the environment.



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#### **SECTION 2. Hazards identification**

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

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

#### 3.2. Mixtures

Contains:

Identification Classification 1272/2008 (CLP) x = Conc. %

Ditrimetilol propane tetraacrylate

CAS 94108-97-1 5 ≤ x < 10 Eye Irrit. 2 H319, Aquatic Chronic 2 H411

FC 302-434-9 INDEX

Reg. no. 01-2119977121-41-xxxx

Propanol, oxybis-, dibenzoate

CAS **Aquatic Chronic 3 H412** 27138-31-4  $5 \le x < 7,5$ 

248-258-5 EC

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Reg. no. 01-2119529241-49-xxxx Ethyl-4-dimethyl aminobenzoate

Repr. 1B H360, Aquatic Chronic 2 H411 CAS 10287-53-3  $0,25 \le x < 0,3$ 

EC 233-634-3

INDEX

01-2120766020-67 Reg. no.

Glycerol, propoxilated, esters with acrylic acid

Eye Irrit. 2 H319, Skin Sens. 1 H317 CAS 52408-84-1  $0,15 \le x < 0,2$ 

EC 500-114-5

INDEX

01-2119487948-12-xxxx Rea no 2-BROMO-2-NITROPROPAN-1,3-DIOL

52-51-7  $0.05 \le x < 0.1$ Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315, CAS

STOT SE 3 H335, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1

EC 200-143-0 INDEX 603-085-00-8

5-Chloro-2-methyl-4-isothiazolin-3-one/2-methyl-2h-isothiazol-3-one

55965-84-9  $0 \le x < 0.0015$ Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1B H314,

Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100,

Aquatic Chronic 1 H410 M=100

611-341-5 FC. INDEX 613-167-00-5

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available



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## **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Choose the most appropriate extinguishing equipment for the specific case.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

The product is neither flammable nor combustible.

#### 5.3. Advice for firefighters

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear 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. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

#### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 12

#### 7.3. Specific end use(s)

Information not available



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## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

			Ditrimetilol pro	opane tetraac	rylate			
Predicted no-effect cor	centration	- PNEC						
Normal value in fresh	water					0,001	mg/l	
Normal value in marir	ne water					0	mg/l	
Normal value for fresh	n water sedi	ment				0,484	mg/kg dw	
Normal value for mari	ne water se	diment				0,0048	mg/kg dw	
Normal value for water	er, intermitte	nt release				0,012	mg/l	
Normal value of STP	microorgani	sms				100	mg/l	
Normal value for the t	errestrial co	mpartment				0,096	mg/kg dw	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers		Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation							VND	5,88
								mg/m3
Skin							VND	1,67
								mg/kg

			Propanol, o	xybis-, dibenzo	ate			
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,0037	mg/l	
Normal value in marii	ne water					0,00037	mg/l	
Normal value for fres	h water sedi	ment				1,49	mg/kg	
Normal value for mar	ine water se	diment				0,149	mg/kg	
Normal value for water	er, intermitte	ent release				0,037	mg/l	
Normal value of STP	microorgan	isms				10	mg/l	
Normal value for the	terrestrial co	mpartment				1	mg/kg	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	n consumers			Effects on workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
·	local	systemic	local	systemic	local	systemic	local	systemic
Oral	VND	80	VND	5		•		•
		mg/kg		mg/kg				
Inhalation	VND	8.7	VND	8.69	VND	35,08	VND	8,8
		mg/m3		mg/m3		mg/m3		mg/m3
Skin	VND	80	VND	0,22	VND	170	VND	10
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
		5 5 -		5 5		bw/d		bw/d

			Ethyl-4-dimet	hyl aminoben:	zoate			
edicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,002	mg/l	
Normal value in mari	ne water					0	mg/l	
Normal value for fres	h water sedi	ment				0,113	mg/kg dw	
Normal value for mar	ine water se	diment				0,011	mg/kg dw	
Normal value for water	er, intermitte	nt release				0,019	mg/l	
Normal value of STP	microorgani	sms				100	mg/l	
Normal value for the	food chain (s	secondary poisor	ning)			740	mg/kg	
Normal value for the	terrestrial co	mpartment				0,021	mg/kg dw	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation							VND	1,2
								mg/kg
Skin							VND	0,3
								mg/kg
								bw/d



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SECTION 8. Exposure controls/personal protection .../>>

Glycerol, propoxilated, esters with acry	/lic acid	
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,00574	mg/l
Normal value in marine water	0,00057	mg/l
	4	
Normal value for fresh water sediment	0,078	mg/kg dw
Normal value for marine water sediment	0,0078	mg/kg dw
Normal value for water, intermittent release	0,0574	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	5,6	mg/kg
Normal value for the terrestrial compartment	0.00111	ma/ka

	Normal value for the t	errestriai coi	пранинени				0,00111	mg/kg	
He	ealth - Derived no-effe	ct level - Di	NEL / DMEL						
		Effects on	consumers			Effects on we	rkers		
	Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
		local	systemic	local	systemic	local	systemic	local	systemic
	Oral			VND	1,39				
					mg/kg				
	Inhalation			VND	4,87			VND	16,22
					mg/m3				mg/m3
	Skin			VND	1,15			VND	1,92
					mg/kg				mg/kg

			DDOMO A MIT	DODDODAN 4				
			-BROMO-2-NIT	ROPROPAN-1	,3-DIOL			
Predicted no-effect con		- PNEC						
Normal value in fresh	water					0,01	mg/l	
Normal value in marir	0,0008	mg/l						
Normal value for fresh	n water sedir	ment				0,041	mg/kg	
Normal value for mari	ne water sed	diment				0,041	mg/kg	
Normal value for water	er, intermitter	nt release				0,0025	mg/l	
Normal value of STP	microorganis	sms				0,43	mg/l	
Normal value for the t	errestrial con	mpartment				0,5	mg/kg	
lealth - Derived no-effe	ect level - Di	NEL / DMEL						
	Effects on	consumers			Effects on w	orkers/		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral	VND	1,1	VND	0,35				
		mg/kg		mg/kg				
Inhalation	1,3	3,7	1,3	1,2	4,2	12,3	4,2	4,1
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	VND	4,2	VND	1,4	VND	7	VND	2,3

mg/kg

mg/kg

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

## 8.2. Exposure controls

Engineering Controls: Provide adequate ventilation to control air contaminants below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Aspiratory system is recommended.

RESPIRATORY PROTECTION: If exposure levels exceed the PEL/TLV levels, use approved respirator.

SKIN PROTECTION: Nitrile gloves are required to prevent skin contact.

mg/kg

EYE PROTECTION: Safety glasses required.

OTHER PROTECTION: Face Shield and apron are recommended.

#### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

PropertiesValueInformationAppearanceviscous liquidColourredOdourLight

mg/kg



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### SECTION 9. Physical and chemical properties ..../>>

Odour threshold Not available

pH 4,8

Melting point / freezing point Not available Initial boiling point 100 Boiling range Not available Not available Flash point **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not available Not available Upper inflammability limit Lower explosive limit Not available Upper explosive limit Not available Vapour pressure 18 mmHg Vapour density Not available

Relative density 1,05

Solubility partially soluble in water

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Viscosity
Explosive properties
Oxidising properties
Not available
Not available
Not available
Not available

9.2. Other information

Total solids (250°C / 482°F) 46,20 %

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

## 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

#### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Ethyl-4-dimethyl aminobenzoate Ethyl-4-dimethyl aminobenzoate: Skin irritation: Non-irritating to the skin Eye irritation: Non-irritating to the eyes LD50> 2000 mg / Kg (oral, rat) LD50> 2000 mg / Kg (dermal, rat).



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## SECTION 11. Toxicological information .../>>

Glycerol, propoxilated, esters with acrylic acid Propoxylated glycerol, esters with acrylic acid:

Skin Irritation: Non-irritating to skin Sensitization: skin sensitizer

Eye irritation: Irritating to eyes

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

2-BROMO-2-NITROPROPAN-1,3-DIOL

 LD50 (Oral)
 305 mg/kg study report; rat

 LD50 (Dermal)
 > 2000 mg/kg OECD 402; rat

 LC50 (Inhalation)
 > 0,588 mg/l study report; rat

Propanol, oxybis-, dibenzoate

 LD50 (Oral)
 3914 mg/kg Rat

 LD50 (Dermal)
 > 2000 mg/kg Rat

 LC50 (Inhalation)
 > 200 mg/L/air Rat

Ditrimetilol propane tetraacrylate

LD50 (Oral) 5000 mg/kg bw Rat LD50 (Dermal) > 2000 mg/kg Rat

Ethyl-4-dimethyl aminobenzoate

LD50 (Oral) > 2000 mg/kg bw Rat LD50 (Dermal) > 2000 mg/kg bw Rat

Glycerol, propoxilated, esters with acrylic acid

 LD50 (Oral)
 2000 mg/kg bw Rat

 LD50 (Dermal)
 2000 mg/kg bw Rabbit

## SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

5-Chloro-2-methyl-4-isothiazolin-3-one/2-methyl-2h-isothiazol-3-one

Glycerol, propoxilated, esters with acrylic acid

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class



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## SECTION 11. Toxicological information .../>>

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. Ethyl-4-dimethyl aminobenzoate

Ethyl-4-dimethyl aminobenzoate:

Possible impact on the environment / Ecotoxicity:

Do not discharge into drains or the environment; dispose of waste in an authorized waste collection point

#### 12.1. Toxicity

2-BROMO-2-NITROPROPAN-1,3-DIOL

LC50 - for Fish 41,2 mg/l/96h EPA OPP 72-1; Oncorhynchus mykiss

EC50 - for Crustacea 1,4 mg/l/48h OECD 202; Daphnia magna

EC50 - for Algae / Aquatic Plants 0,37 mg/l/72h OECD 201; Pseudokirchnerella subcapitata; growth rate

Chronic NOEC for Fish 21,5 mg/l OECD 210; Oncorhynchus mykiss; 49d Chronic NOEC for Crustacea 0,27 mg/l OECD 211; Daphnia magna; 21d

Propanol, oxybis-, dibenzoate

 LC50 - for Fish
 3,7 mg/l/96h

 EC50 - for Crustacea
 19,3 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 4,9 mg/l/72h

Ditrimetilol propane tetraacrylate

LC50 - for Fish 1,2 mg/l/96h Cyprinus carpio EC50 - for Crustacea 10 mg/l/48h Daphnia magna

Ethyl-4-dimethyl aminobenzoate

LC50 - for Fish

1,9 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

4,5 mg/l/48h Daphnia magna

EC50 - for Algae / Agustic Plants

2,8 mg/l/72h Pseudokirchnerialla sub

EC50 - for Algae / Aquatic Plants 2,8 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish 1,2 mg/l Oncorhynchus mykiss Chronic NOEC for Crustacea 1,2 mg/l Oncorhynchus mykiss

Chronic NOEC for Algae / Aquatic Plants 0,29 mg/l Pseudokirchneriella subcapitata

Glycerol, propoxilated, esters with acrylic acid

LC50 - for Fish 5,74 mg/l/96h Danio rerio (OECD TG 203) EC50 - for Crustacea 91,4 mg/l/48h Daphnia magna (OECD TG 202)

EC50 - for Algae / Aquatic Plants 12,2 mg/l/72h Desmodesmus subspicatus (OECD TG 201)

#### 12.2. Persistence and degradability

2-BROMO-2-NITROPROPAN-1,3-DIOL

Rapidly degradable



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## SECTION 12. Ecological information .../>>

Propanol, oxybis-, dibenzoate Rapidly degradable

Ditrimetilol propane tetraacrylate NOT rapidly degradable

Ethyl-4-dimethyl aminobenzoate NOT rapidly degradable

Glycerol, propoxilated, esters with acrylic acid Rapidly degradable

#### 12.3. Bioaccumulative potential

 $\hbox{5-Chloro-2-methyl-4-isothiazolin-3-one/2-methyl-2h-isothiazol-3-one}\\$ 

BCF 3,1

Glycerol, propoxilated, esters with acrylic acid

Partition coefficient: n-octanol/water 2,52 (OECD 107)

#### 12.4. Mobility in soil

Ditrimetilol propane tetraacrylate

Partition coefficient: soil/water 3,61

#### 12.5. Results of PBT and vPvB assessment

Glycerol, propoxilated, esters with acrylic acid

Propoxylated glycerol, esters with acrylic acid: not PBT and vPvB

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

#### 12.6. Other adverse effects

Information not available

#### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable



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#### **SECTION 14. Transport information** .../>>

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

#### **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Repr. 1B Reproductive toxicity, category 1B Acute Tox. 2 Acute toxicity, category 2 Acute Tox. 3 Acute toxicity, category 3 Acute toxicity, category 4 Acute Tox 4 Skin Corr. 1B Skin corrosion, category 1B Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

#### ΕN



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#### **SECTION 16. Other information** .../>>

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1 Skin Sens. 1A Skin sensitization, category 1A

Hazardous to the aquatic environment, acute toxicity, category 1 Aquatic Acute 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1 **Aquatic Chronic 2** Hazardous to the aquatic environment, chronic toxicity, category 2 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3

H360 May damage fertility or the unborn child.

H310 Fatal in contact with skin. Fatal if inhaled. H330 H301 Toxic if swallowed. H302 Harmful if swallowed. H312 Harmful in contact with skin.

Causes severe skin burns and eye damage. H314

H318 Causes serious eye damage. Causes serious eye irritation. H319 Causes skin irritation. H315

May cause respiratory irritation. H335 H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament



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#### SECTION 16. Other information .../>>

- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 11 / 12 / 15.