### 0030170 - PULIGRAFF CREMA

Revision nr. 6

Dated 16/01/2023

Printed on 22/02/2023

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Replaced revision:5 (Dated: 04/02/2022)

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

### 1.1. Product identifier

0030170 Code:

Product name **PULIGRAFF CREMA** Chemical name and synonym **PULIGRAFF CREMA** 

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

Intended use Alkaline / solvent cream stain remover for removing inks and graffiti

### 1.3. Details of the supplier of the safety data sheet

Name MARBEC S.R.L. VIA CROCE ROSSA 5/i Full address District and Country 51037 MONTALE (PISTOIA)

**ITALIA** 

Tel. +039 0573/959848

Fax

e-mail address of the competent person

responsible for the Safety Data Sheet becarelli@marbec.it Supplier: info@marbec.it

### 1.4. Emergency telephone number

For urgent inquiries refer to MARBEC srl

0573959848 h8.30-13 h14-18 o 3357267921

Numero telefonico di Centri Antiveleni attivi 24/24 ore

IRCSS Fondazione Maugeri -Pavia 0039-0382-24444 CAV Ospedali Riuniti -Bergamo 0039-800-883300

CAV Ospedale Niguarda Ca` Granda -

Milano 0039-02-66101029

CAV Ospedale Careggi- Firenze 0039-055-7947819

CAV Policlinico Gemelli -Roma 0039-06-3054343 CAV Policlinico Umberto I -Roma 0039-06 49978000 CAV Ospedale Cardarelli -Napoli 0039-081 5453333

CAV Azienda Ospedaliera Integrata Verona - Verona 800011858

### **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

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supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. 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:

Skin corrosion, category 1A H314 Causes severe skin burns and eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage.

### 2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

H302 Harmful if swallowed.

**H314** Causes severe skin burns and eye damage.

Precautionary statements:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**P280** Wear protective gloves/ protective clothing / eye protection / face protection.

P310 Immediately call a POISON CENTER / doctor / . . .

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Contains: SODIUM HYDROXIDE

### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

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

### 3.2. Mixtures

Contains:

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

DIETHYLENE GLYCOL MONOETHYL ETHER

CAS 111-90-0  $9 \le x < 30$ 

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EC 203-919-7

EC 203-905-0

INDEX -

REACH Reg. 01-2119475105-42

2-BUTOXYETHANOL

CAS 111-76-2  $10 \le x < 30$  Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

Skin Irrit 2 H315

LD50 Oral: >1200 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours:

11 mg/l

INDEX 603-014-00-0

REACH Reg. 01-2119475108-36-0005 Silicic acid, calcium

(crystalline)

CAS 1344-95-2

 $10 \le x < 30$ Eye Irrit. 2 H319

EC 215-710-8

INDEX -

REACH Reg. 01-2119990740-32

-xxxx

**BENZYL ALCOHOL** 

Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319 CAS 100-51-6  $3 \le x < 9$ 

EC 202-859-9 LD50 Oral: 1620 mg/kg, STA Inhalation vapours: 11 mg/l

INDEX 603-057-00-5

REACH Reg. 01-2119492630-38-

**SODIUM HYDROXIDE** 

CAS 1310-73-2 Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318  $1 \le x < 2$ 

Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eye Dam. 1 H318: ≥ EC 215-185-5

2%, Eye Irrit. 2 H319: ≥ 0,5%

INDEX 011-002-00-6

REACH Reg. 01-2119457892-27-

XXXX

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

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 Do not breathe combustion products.

### 5.3. Advice for firefighters

### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

10

### 7.3. Specific end use(s)

Information not available

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

### 8.1. Control parameters

### Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	TLV-ACGIH	ACGIH 2021
	RCP TLV	ACGIH TLVs and BEIs –
		Appendix H

Туре	Country	TWA/8h		STEL/15min		Remarks	. /	
туре	Country	I WA/OII		3121/13111111		Observa	•	
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	35	6	70	12		11	
Predicted no-effect concent	ration - PNEC							
Normal value in fresh water				1,98	m	g/l		
Normal value in marine wat	er			0,198	m	g/l		
Normal value for fresh water sediment				7,32	m	g/kg/d		
Normal value for marine water sediment				0,732	m	g/kg/d		
Normal value of STP micro	organisms			500	m	g/l		
Normal value for the terrest	rial compartment			0,34	m	g/kg/d		
Health - Derived no-eff	ect level - DNEL /	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				50 mg/kg bw/d		•		
Inhalation			18 mg/m3	37 mg/m3			30 mg/m3	61 mg/m3
Skin				25 mg/kg bw/d				83 mg/kg bw/d

### 2-BUTOXYETHANOL

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Туре	Country	TWA/8h		STEL/15min		Remarks / Observation		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	49	10	98 (C)	20 (C)	SKIN		
MAK	DEU	49	10	98	20	SKIN	Hinweis	
VLA	ESP	98	20	245	50	SKIN		
VLEP	FRA	49	10	246	50	SKIN		
VLEP	ITA	98	20	246	50	SKIN		
VLE	PRT	98	20	246	50	SKIN		
WEL	GBR	123	25	246	50	SKIN		
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH		97	20					
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water	8,8	mg	/I					
Normal value in marine water				0,88	mg	ı/I		
Normal value for fresh water sec	diment			34,6	mg	/kg		
Normal value for marine water s	3,46	mg	/kg					
Normal value for water, intermitt	ent release			9,1	mg	ı/I		
Normal value of STP microorgar	463	mg						
Normal value for the food chain	20		/kg					
Normal value for the terrestrial c				2,33		ı/kg		
Health - Derived no-effect		DMEL		•				
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		26,7 mg/kg		6,3 mg/kg		0,0100		<u> </u>
Inhalation	147 mg/m3	bw/d 426 mg/m3		bw/d 59 mg/m3	246 mg/m3	1091 mg/m3		98 mg/m3
Skin				38 mg/kg				
				bw/d				
Silicic acid, calcium salt (c	rvstalline)							
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observation		
		mg/m3	ppm	mg/m3	ppm			
RCP TLV		10				INHAL		
RCP TLV		3				RESP		
BENZYL ALCOHOL								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks /		
турс	Country					Observation Observation		
. 0.11	DE:::	mg/m3	ppm	mg/m3	ppm			
AGW	DEU n - PNEC	22	5	44	10	SKIN	11	
Predicted no-effect concentration				1	mg	1/1		
					ing			
Normal value in fresh water				0.1	pro ro	1/1		
Predicted no-effect concentration  Normal value in fresh water  Normal value in marine water  Normal value for fresh water sec				0,1 5,27	mg	ı/l ı/kg		

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Normal value for marine water sediment	0,527	mg/kg
Normal value for water, intermittent release	2,3	mg/l
Normal value of STP microorganisms	39	mg/l
Normal value for the terrestrial compartment	0.45	ma/ka/d

Health - Derived no-ef	fect level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		20 mg/kg bw/d		4 mg/kg bw/d				
Inhalation		27 mg/m3		5,4 mg/m3		110 mg/m3		22 mg/m3
Skin		20 mg/kg bw/d		4 mg/kg bw/d		40 mg/kg bw/d		8 mg/kg bw/d

SODIUM HYDROXIDE							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP			2			
VLEP	FRA	2					
WEL	GBR			2			
TLV-ACGIH				2 (C)			

Health - Derived no-effect level - DNEL / DMEL								
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Inhalation			1 mg/m3	1 mg/m3			1 mg/m3	1 mg/m3

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

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

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

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### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

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

SODIUM HYDROXIDE

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

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

Properties	Value	Information
Appearance	paste	
Colour	light brown	
Odour	characteristic of solvent	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Flammability	not flammable	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 90 °C	
Auto-ignition temperature	Not available	
рН	14	
Kinematic viscosity	Not available	
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	0,94 kg/l	
Relative vapour density	Not available	
Particle characteristics	Not applicable	

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

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9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 61,70 % - 580,00 g/litre

Explosive properties Not explosive
Oxidising properties Not oxidising

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

### 10.1. Reactivity

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

2-BUTOXYETHANOL

Decomposes under the effect of heat.

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

### 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.

DIETHYLENE GLYCOL MONOETHYL ETHER

Forms explosive mixtures with: air.May react dangerously with: oxidising agents, aluminium.

2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

### 10.4. Conditions to avoid

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

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

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**ACUTE TOXICITY** 

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ATE (Inhalation - vapours) of the mixture: > 20 mg/l ATE (Oral) of the mixture: >2000 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

### DIETHYLENE GLYCOL MONOETHYL ETHER

LD50 (Dermal): 9143 mg/kg rabbit

LD50 (Oral): 6031 mg/kg mouse (masculine)

0,02 mg/l/8h rat LC50 (Inhalation vapours):

2-BUTOXYETHANOL

LD50 (Dermal): > 2000 mg/kg Guinea pig (OECD – guide lines 402) STA (Dermal):

1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): > 1200 mg/kg Guinea pig

LC50 (Inhalation vapours): 2,2 mg/l/4h Rat

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

Silicic acid, calcium salt (crystalline)

LC50 (Inhalation mists/powders): > 4,9 mg/l/4h inalazione ratto

BENZYL ALCOHOL

LD50 (Dermal): 2000 mg/kg Rabbit LD50 (Oral): 1620 mg/kg Rat LC50 (Inhalation vapours): > 4178 mg/l/4h Rat

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

SODIUM HYDROXIDE

LD50 (Dermal): 1350 mg/kg Rat LD50 (Oral): 1350 mg/kg Rat

### SKIN CORROSION / IRRITATION

Corrosive for the skin

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

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Does not meet the classification criteria for this hazard class

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Adverse effects on development of the offspring

REPRODUCTIVE TOXICITY

Information not available

Information not available

Effects on or via lactation

Information not available

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Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with

Does not meet the classification criteria for this hazard class

**SECTION 12. Ecological information** 

11.2. Information on other hazards

human health effects under evaluation.

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### 12.1. Toxicity

### 2-BUTOXYETHANOL

Aquatic toxicity assessment (supplier): The product is not likely to be harmful to aquatic organisms. There is a high probability that the product is not chronically harmful to aquatic organisms. The correct introduction of low concentrations into the biological purification plant should not compromise the degradation activity of the activated sludge. Terrestrial toxicity assessment (supplier): scientifically not justified study.

### DIETHYLENE GLYCOL MONOETHYL

**ETHER** 

LC50 - for Fish 6010 mg/l/96h pesce

EC50 - for Crustacea 1982 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/96h scenedesmus subspicatus

2-BUTOXYETHANOL

LC50 - for Fish 1474 mg/l/96h oncorhynchus mykiss EC50 - for Crustacea 1550 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic Plants 1840 mg/l/72h pseudokirchneriella subcapitata

Chronic NOEC for Fish > 100 mg/l brachydanio rerio
Chronic NOEC for Crustacea 100 mg/l daphnia magna

BENZYL ALCOHOL

LC50 - for Fish 460 mg/l/96h Pimephales promelas EC50 - for Crustacea 230 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic Plants 770 mg/l/72h Pseudokircheneriella subcapitata

### 12.2. Persistence and degradability

Silicic acid, calcium salt (crystalline)

The substance is inorganic so it is not subject to biodegradation.

SODIUM HYDROXIDE

Solubility in water > 10000 mg/l

Degradability: information not available

DIETHYLENE GLYCOL MONOETHYL

**ETHER** 

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

BENZYL ALCOHOL

Rapidly degradable

12.3. Bioaccumulative potential

Silicic acid, calcium salt (crystalline)

The substance is inorganic, therefore not subject to accumulation.

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### DIETHYLENE GLYCOL MONOETHYL

**FTHFR** 

Partition coefficient: n-octanol/water -0,54

BCF < 100 not very bioaccumulative

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

BCF 3,16 (calculated QSAR value). This substance is not expected to

bioaccumulate

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

### 12.4. Mobility in soil

### 2-BUTOXYETHANOL

Assessment transport between environmental compartments (supplier): the substance does not evaporate into the atmosphere from the water surface. Absorption to the solid phase of the soil is not foreseeable. Scientifically unjustified study. Stability in water: Immediate hydrolysis is not expected; does not contain functional groups for which it is believed that they can be hydrolysed in water. Stability in soil: expected low absorption into soil particles. Silicic acid, calcium salt (crystalline)

The substance has a low potential for absorption.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

### 12.7. 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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

### **SECTION 14. Transport information**

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### 14.1. UN number or ID number

ADR / RID, IMDG,

1760

IATA:

### 14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S. IMDG: CORROSIVE LIQUID, N.O.S. IATA: CORROSIVE LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

ADR / RID:

Class: 8

Label: 8

IMDG:

Class: 8

Label: 8

IATA:

Class: 8

Ш

Label: 8

Cargo:

Special provision:



### 14.4. Packing group

ADR / RID, IMDG,

IATA:

IATA:

### 14.5. Environmental hazards

ADR / RID: NO NO IMDG: IATA: NO

### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80 Limited Quantities: 5 Tunnel restriction code: (E)

Special provision: 274

IMDG: EMS: F-A, S-B Limited Quantities: 5

Maximum quantity: 60 L

Packaging instructions: 856

Maximum quantity: 5 L Packaging instructions: 852

A3, A803

Pass.:

### 14.7. Maritime transport in bulk according to IMO instruments

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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/EU: None

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

**Product** 

Point

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

3

Not applicable

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 Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent dangerous to health must be subject to health surveillance carried out in accordance with the provisions of art. 41 of D.Lgs. 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed irrelevant, in accordance with art. 224 paragraph 2

### 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**

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

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1A Skin corrosion, category 1A

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
H290 May be corrosive to metals.
H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

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

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- · CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) 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

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- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP) 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII 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:

03 / 08 / 11 / 16.