	MAR	BEC SRL		Revision No. 8
				Revision date 02/13/2025
	0030170 - PU	LIGRAFF CREM	1A	Printed on 02/13/2025
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				Replaces revision:7 (Revision date: 08/25/2023)
		Safety Data		
	In accordance	e with Annex II of REACI	H - Regulation (EU) 2020/878	
SECTION 1. Identi	fication of the subs	stance/mixture a	nd of the company/unde	ertaking
1.1. Product identifier				
Code:		0030170		
Name		PULIGRAFF CREMA		
Chemical name and synor	nyms	PULIGRAFF CREMA		
1.2 Relevant identified	ises of the substance or m	ixture and uses advice	ad anainst	
	ises of the substance of In	Intuit and uses duvise	su agamat	
Sector of use	SU22 – Professional	uses		
Product Category	PC35 – Washing an	d cleaning products (ii	ncluding solvent-based products	6)
Description/Use	Alkaling/solvent cross	m stain remover for rei	moving ink and graffiti	
Description/ose	Arkanne/Solvent creat		moving ink and granti	
1.3. Details of the suppli	er of the safety data sheet			
Company Name	· · · · · · · · · · · · · · · · · · ·	MARBEC SRL		
Address		VIA CROCE ROSSA 5		
Location and State		51037 MONTALE (PIS	STOIA)	
		tel. +039 0573/959848		
e-mail of the competent pe	areon	1000 0010/000040		
		into Oranita a li		
responsible for the safety	data sheet	info@marbec.it		
1.4 Emergeney telephor	a number			
1.4. Emergency telephor For urgent information ple				
MARBEC srl				
0573959848 8.30am-1pm 2p				
Telephone number of Poise National Poisons Information				
		1110 1 1 1 0 1 1 0 0 2 0 1 1 1		
SECTION 2. Hazar	ds identification			
2.1. Classification of the su	bstance or mixture			
The product is classified as c	langerous according to the p	provisions of Regulation	(EC) 1272/2008 (CLP) (and subse	quent amendments and adjustments).
The product therefore require				
Any additional information re	yaruing nealth and/or enviro	nmental risks is given in	sections 11 and 12 of this sheet.	
Classification and hazard sta	tements:			
Skin corrosion, category 1		H314	Causes severe skin burns	s and serious eye damage.
Serious eye damage, cate		H318	Causes serious eye dama	age.
Skin sensitization, categor	ry 1B	H317	May cause an allergic ski	n reaction.

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2. Label elements	
azard labelling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.	

	!>
Warnings:	Danger
Hazard statements: H314	Causes severe skin burns and serious eye damage.
H317	May cause an allergic skin reaction.
Precautionary statements: P260	Do not breathe dust / fume / gas / mist / vapours / spray.
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/clothing and eye/face protection.
P310	Contact a POISON CENTER / doctor immediately /
P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P362+P364	Remove contaminated clothing and wash before reusing.
Contains:	Benzyl alcohol, Sodium hydroxide

2.3. Other dangers

Based on available data, the product does not contain PBT or vPvB substances in percentage $\geq 0.1\%$.

The product does not contain substances with endocrine-disrupting properties in concentrations $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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Identification	x = Conc. %	Classification 1272/2008 (CLP)
DIETHYLENE GLYCOL		
MONOETHYL ETHER INDEX -	9 ≤ x < 30	
EC 203-919-7		
CAS 111-90-0		
REACH Reg. 01-2119475105-42		
Silicic acid, calcium salt (crystalline) INDEX -	10 ≤ x < 30	Eye Irrit. 2 H319
EC 215-710-8		
CAS 1344-95-2		
REACH Reg. 01-2119990740-32 -xxxx		
3-methoxy-3-methyl-1-butanol		
INDEX -	10 ≤ x < 30	Eye Irrit. 2 H319
EC 260-252-4		
CAS 56539-66-3		
REACH Reg. 01-2119976333-33-		
XXXX 2-BUTOXYETHANOL		
INDEX 603-014-00-0	9 ≤ x < 10	Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		LD50 Oral: >1200 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h
CAS 111-76-2		
REACH Reg. 01-2119475108-36- 0005 BENZYL ALCOHOL		
INDEX 603-057-00-5	3 ≤ x < 9	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317
EC 202-859-9		LD50 Oral: 1200 mg/kg
CAS 100-51-6		
REACH Reg. 01-2119492630-38- xxxx		
SODIUM HYDROXIDE		
INDEX 011-002-00-6	1 ≤ x < 2	Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318
EC 215-185-5		Skin Corr. 1B H314: ≥ 2% - < 5%, Skin Corr. 1C H314: ≥ 2% - < 5%, Skin Irrit. 2 H315: ≥ 0.5% - < 2%, Eye Dam. 1 H318: ≥ 2%, Eye Irrit. 2 H319: ≥ 0.5% - < 2%
CAS 1310-73-2		
REACH Reg. 01-2119457892-27- xxxx		

The full text of the hazard statements (H) is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

If in doubt or if you experience symptoms, contact a doctor and show this document. In case of more serious symptoms, call 118 for immediate medical assistance.

EYES: Remove contact lenses, if present, if the situation allows this to be done easily. Wash immediately with plenty of water for at least 15 minutes,

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holding the eyelids wide open. Consult a doctor immediately.

SKIN: Remove immediately all contaminated clothing. Wash immediately with plenty of running water (and soap if possible). Seek medical attention immediately. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless specifically authorized by your doctor. Rinse the mouth with running water. Do not administer anything by mouth if the person is unconscious. Seek medical attention immediately.

INHALATION: Remove the victim to fresh air, away from the accident site. If respiratory symptoms occur (cough, dyspnea, difficulty breathing, asthma) keep the victim in a comfortable position for breathing. If necessary, administer oxygen. If breathing stops, perform artificial respiration. Seek medical attention immediately.

Protection of rescuers

It is good practice for the rescuer who provides assistance to a subject who has been exposed to a chemical substance or mixture to wear personal protective equipment. The nature of such protection depends on the dangerousness of the substance or mixture, the method of exposure and the extent of contamination. In the absence of other more specific indications, it is recommended to use disposable gloves in case of possible contact with biological fluids. For the type of PPE suitable for the characteristics of the substance or mixture, refer to section 8.

4.2. Main symptoms and effects, both acute and delayed

There is no specific information available on symptoms and effects caused by the product.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

4.3. Indication of any need to immediately consult a doctor and require special treatment

Contact a POISON CENTER / doctor immediately / . . .

Means to have available in the workplace for specific and immediate treatment

Running water for washing skin and eyes.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEANS The extinguishing means are the traditional ones: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEANS No one in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE Avoid breathing combustion products.

5.3. Recommendations for firefighters

GENERAL INFORMATION

Cool containers with water jets to prevent product decomposition and the development of substances potentially hazardous to health. Always wear complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of contaminated fire extinguishing water and fire residue according to current regulations.

EQUIPMENT

Normal firefighting clothing, such as open-circuit compressed air breathing apparatus (EN 137), flame-retardant overalls (EN469), flame-retardant gloves (EN 659) and firefighter's boots (HO A29 or A30).

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop the leak if it is safe to do so.

Wear appropriate protective equipment (including personal protective equipment as per section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These instructions apply to both workers and emergency response personnel.

6.2. Environmental precautions

Prevent the product from entering sewers, surface water or groundwater.

6.3. Methods and materials for containment and remediation

Suck up the spilled product into a suitable container. Assess the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide adequate ventilation of the area affected by the spill. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Ensure adequate earthing for equipment and people. Avoid contact with eyes and skin. Do not inhale any dust or vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid dispersing the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated place, away from sources of ignition. Keep containers tightly closed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent impacts. Store containers away from any incompatible materials, checking section 10.

Storage class TRGS 510 (Germany): 10

7.3. Specific end uses

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Germany	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung
ESP	Spain	gesundheitsschädlicher Arbeitsstoffe Mitteilung 58 Professional exposure limits for chemical agents in Spain 2023
BETWEEN	France	Value limits for professional exposure to chemical agents in France Decree n° 2021-1849 of 28 December

MARBEC SRL	MA	RB	SEC	SRL
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ITA PRT	Italy Portugal		agents. Legislativ	e n. 1/2021 c /e Decree no.	8, n.81 f 6 January, indicati 35/2020 of 13 July, mutagenic agents				
GBR EU	United Kingdom TLV-ACGIH RCP TLV				re limits (Fourth Edi	tion 2020)			
GIH TLVs ar ppendix H	nd BEIs –								
	ENE GLYCOL MONO	DETHYL ETHEI	२						
Fhreshold Type	l limit value State	TWA/8h			STEL/15min		Notes /		
		mg/m3		ppm	mg/m3	ppm	Observat	tions	
AGW	DEU	35		6	70	12		11	
IAKE	DEU	50		•	100	12	INALAB		
	o-effect concentration - I								
	alue in fresh water				1.98	mg	/1		
	alue in sea water				0.198	mg			
	alue for sediments in fre	esh water			7.32		/kg/day		
Reference v	alue for sediments in se	awater			0.732	0	/kg/day		
Reference v	alue for STP microorga	nisms			500	mg	//		
leference v	alue for the terrestrial co	ompartment			0.34	mg	/kg/day		
lealth - D	erived No-Effect Le	vel - DNEL / DI	MEL						
		Effects on consumers				Effects on workers			
Exposure W	/ay	Sharp locals	Acute systemic	Chronic premises	Chronic systemic	Sharp locals	Acute systemic	Chronic premises	Chronic systemic
Dral				promoto	50 mg/kg		oyotonno	promised	ey et en me
nhalation				18 mg/m3	bw/d 37 mg/m3			30 mg/m3	61 mg/m3
Dermal					25 mg/kg bw/d				83 mg/kg bw/d
	d, calcium salt (crys I limit value	stalline)							
уре	State	TWA/8h			STEL/15min		Notes /		
		mg/m3		ppm	mg/m3	ppm	Observat	tions	
CP TLV		10			-		INALAB		
RCP TLV		3					BREATH		
-methoxy	y-3-methyl-1-butanc	bl							
lealth - D		vel - DNEL / DI Effects on consumers	MEL			Effects on workers			
Exposure W		Sharp locals	Acute systemic	Chronic	Chronic	Sharp locals	Acute	Chronic	Chronic
Dral				premises	systemic 2.5 mg/kg		systemic	premises	systemic
nhalation					bw/d 4.4 mg/m3				18 mg/m3
Dermal					3.1 mg/kg				6.25 mg/kg
					bw/d				bw/d

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Туре	State	TWA/8	ĥ		STEL/15min		Notes / Observation	ons	
		mg/m3	;	ppm	mg/m3	ppm	Observation		
AGW	DEU	49		10	98	20	SKIN		
MAKE	DEU	49		10	98	20	SKIN	Note	
VLA	ESP	98		20	245	50	SKIN		
VLEP	BETWEEN	49		10	246	50	SKIN		
VLEP	ITA	98		20	246	50	SKIN		
VLE	PRT	98		20	246	50	SKIN		
WELL	GBR	123		25	246	50	SKIN		
OEL	EU	98		20	246	50	SKIN		
TLV-ACGIH		97		20					
Predicted no-effect conce	ntration - PNEC								
Reference value in fresh v	water				8.8	mg/	1		
Reference value in sea wa	ater				0.88	mg/	1		
Reference value for sedim	nents in fresh wa	ater			34.6	mg/			
Reference value for sedim					3.46	mg/	-		
Reference value for water					9.1	mg/	-		
Reference value for STP r					463	mg/			
Reference value for the fo		darv poise	onina)		20	mg/			
Reference value for the te					2.33	mg/	-		
Health - Derived No-E	Effects	s on mers				Effects on workers			
Exposuro Mov	Sharn	locals	Acute systemic	Chronic	Chronic			Ole ne ne l e	Olympic in the
Exposure way	Onarp	100015	Acute systemic			Sharp locals	Acute systemic	Chronic premises	Chronic systemic
	Unarp	100013	26.7 mg/kg	premises	systemic 6.3 mg/kg	Sharp locals	Acute systemic	premises	systemic
Oral	147 m				systemic	Sharp locals			
Oral			26.7 mg/kg bw/d		systemic 6.3 mg/kg bw/d		systemic		systemic
Dral Inhalation Dermal BENZYL ALCOHOL	147 m		26.7 mg/kg bw/d		systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg		systemic		systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value	147 m		26.7 mg/kg bw/d 426 mg/m3		systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg		systemic		systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value	147 m	ıg/m3 TWA/8	26.7 mg/kg bw/d 426 mg/m3	premises	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min	246 mg/m3	systemic 1091 mg/m3	premises	systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type	147 m State	ıg/m3 TWA/8 mg/m3	26.7 mg/kg bw/d 426 mg/m3	premises ppm	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3	246 mg/m3	systemic 1091 mg/m3 Notes / Observatio	premises	systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW	147 m	ıg/m3 TWA/8	26.7 mg/kg bw/d 426 mg/m3	premises	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min	246 mg/m3	systemic 1091 mg/m3 Notes /	premises	systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW MAKE	147 m State DEU DEU	rg/m3 TWA/8 mg/m3 22 22	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44	246 mg/m3	systemic 1091 mg/m3 Notes / Observation SKIN	premises	systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW MAKE Predicted no-effect concel	147 m State DEU DEU ntration - PNEC	rg/m3 TWA/8 mg/m3 22 22	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44	246 mg/m3	systemic 1091 mg/m3 Notes / Observation SKIN SKIN	premises	systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW MAKE Predicted no-effect concel Reference value in fresh v	147 m State DEU DEU ntration - PNEC water	rg/m3 TWA/8 mg/m3 22 22	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44 44	246 mg/m3 ppm 10 10 mg/	systemic 1091 mg/m3 Notes / Observation SKIN SKIN 1	premises	systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW MAKE Predicted no-effect concee Reference value in fresh v Reference value in sea wa	147 m State DEU DEU ntration - PNEC water ater	rg/m3 TWA/8 mg/m3 22 22	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	<u>systemic</u> 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44 44 44	246 mg/m3 ppm 10 10 mg/ mg/	systemic 1091 mg/m3 Notes / Observation SKIN SKIN 1 1	premises	systemic
Dral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW MAKE Predicted no-effect conce Reference value in fresh v Reference value in sea wa Reference value for sedim	147 m State DEU DEU ntration - PNEC water ater nents in fresh wa	rg/m3 TWA/8 mg/m3 22 22 22 atter	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44 44 1 0.1 5.27	246 mg/m3 246 mg/m3 ppm 10 10 mg/ mg/ mg/ mg/	systemic 1091 mg/m3 Notes / Observation SKIN SKIN 1 1 kg	premises	systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW MAKE Predicted no-effect concet Reference value in fresh v Reference value in sea wa Reference value for sedim Reference value for sedim	147 m State DEU DEU ntration - PNEC water ater nents in fresh wa nents in seawate	rg/m3 TWA/8 mg/m3 22 22 22 atter	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44 44 44 1 0.1 5.27 0.527	246 mg/m3 246 mg/m3 ppm 10 10 10 mg/ mg/ mg/ mg/ mg/ mg/	systemic 1091 mg/m3 1091 mg/m3 Notes / Observation SKIN SKIN 1 1 kg kg	premises	systemic
Dral Dral Dermal	147 m State DEU DEU ntration - PNEC water ater nents in fresh wa nents in seawate	rg/m3 TWA/8 mg/m3 22 22 22 atter	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44 44 1 0.1 5.27 0.527 2.3	246 mg/m3 246 mg/m3 ppm 10 10 mg/	systemic 1091 mg/m3 1091 mg/m3 Notes / Observation SKIN SKIN 1 1 kg kg 1	premises	systemic
Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW MAKE Predicted no-effect concel Reference value in fresh v Reference value in sea wa Reference value for sedim Reference value for sedim Reference value for sedim Reference value for set Reference value for STP r	147 m State DEU DEU ntration - PNEC water ater nents in fresh water nents in seawate , intermittent rele microorganisms	rtWA/8 mg/m3 22 22 22 ater ease	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44 44 44 1 0.1 5.27 0.527 2.3 39	246 mg/m3 246 mg/m3 ppm 10 10 10 mg/	systemic 1091 mg/m3 1091 mg/m3 Notes / Observation SKIN SKIN 1 1 kg kg 1 1	premises	systemic
Exposure Way Oral Inhalation Dermal BENZYL ALCOHOL Threshold limit value Type AGW MAKE Predicted no-effect concer Reference value in fresh v Reference value in fresh v Reference value in sea wa Reference value for sedirr Reference value for sedirr Reference value for sedirr Reference value for ster r Reference value for ster r Reference value for the te Health - Derived No-E	147 m State DEU DEU ntration - PNEC water ater nents in fresh wa nents in seawate , intermittent rela microorganisms	rtWA/8 mg/m3 22 22 22 atter ease trment DNEL / I	26.7 mg/kg bw/d 426 mg/m3	premises ppm 5	systemic 6.3 mg/kg bw/d 59 mg/m3 38 mg/kg bw/d STEL/15min mg/m3 44 44 1 0.1 5.27 0.527 2.3	246 mg/m3 246 mg/m3 ppm 10 10 10 mg/	systemic 1091 mg/m3 1091 mg/m3 Notes / Observation SKIN SKIN 1 1 kg kg 1	premises	systemic

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Oral 20 mgkg bwid 4 mgkg bwid 4 mgkg bwid 40 mgkg bwid 40 mgkg bwid 40 mgkg bwid 8 mg bwid 8 mg bwid 4 mgkg bwid 40 mgkg bwid 8 mg bwid 1 mg m3 9 mg bwid 1 mg m3 1								F	Replaces revision:7 (R	evision date: 08/25/
Inhibition 27 mg/m3 5.4 mg/m3 110 mg/m3 22 mg/m3 Demail 20 mg/kg bwid 4 mg/kg bwid 40 mg/kg 80 mg/kg SODUM HYDROXIDE Interview 100 mg/m3 8 mg/kg SODUM HYDROXIDE Interview 100 mg/m3 8 mg/kg Type State TWARh STEL/15min Notes: / MCIL ESP 2					premises	systemic		systemic	premises	systemic
Demail 20 mg/kg bw/d 4 mg/kg bw/d 40 mg/kg 8 mg SODUM HYDROXIDE	Oral			20 mg/kg bw/d					·	
SODUM HYDROXIDE build	Inhalation			27 mg/m3		5.4 mg/m3		110 mg/m	3	22 mg/m3
Threshold limit value Type State TWA/Bh STEL/15min Notes / Observations VLA ESP 2	Dermal			20 mg/kg bw/d		4 mg/kg bw/d				8 mg/kg bw/
Type State TWARIN STEL/15min Notes / Observations mg/m3 ppm mg/m3 ppm VLA ESP 2 VLF BETWEEN 2 WELL GBR 2 TU-X-ACGIH 2 (C) Health - Derived No-Effect Level - ONEL / DMEL Effects on consumers Effects on workers Exposure Way Sharp locals Acute systemic Timp/m3 1 mg/m3 1 mg/m3 1 mg/m3 gend: - - - agend: - - - agend: - - - - agend: - - - - - agend: - - - - - - agend: - </td <td>SODIUM HYDROXIDE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SODIUM HYDROXIDE									
Imagina ppm mg/m3 ppm VLA ESP 2 VLEP BETWEEN 2 WELL GBR 2 TV-ACGH 2 (C) Heath - Derived No-Effect Level - DNEL / DMEL Effects on workers Exposure Way Sharp locals Acute systemic Chronic Charles Sharp locals Acute systemic Sharp locals Acute systemic gend: 1 mg/m3 1 mg/		<u></u>		-		0751/45				
VLA ESP 2 VLEP BETWEEN 2 WELL GBR 2 TU-VaCGH 2 (C) Heath - Derived No-Effect Lovel - DNEL / DMEL Effects on consummers Effects on workers Effects on workers Exposure Way Ghap locals Acute systemic Chronic premises Systemic Shap locals Acute systemic Orronic systemic Orronic systemic Orronic systemic Orronic Chronic systemic Shap locals Acute systemic Orronic systemic Orronic systemic Orronic Systemic Diversition Timpin3 1 mg/m3 1	Туре	State				STEL/15min				
VLEP BETWEEN 2 WELL GBR 2 TLY-ACGIH 2 (C) Health - Derived No-Effect Level - DMEL / DMEL Effects on consumers Effects on workers Exposure Way Sharp locals Acute systemic Chronic Sharp locals Acute on systemic Phone Chronic Systemic Phone Chronic Systemic Phone Chronic Chronic Sharp locals Acute on systemic Phone Chronic Sharp locals Acute on systemic Phone Chronic Sharp locals Systemic Original			mg/m3		ppm	mg/m3	ppm			
WELL GBR 2 TLV-ACGIH 2 (C) Health - Derived No-Effect Level - DNEL / DMEL Effects on consumers Effects on workers Exposure Why Sharp locals Acute systemic Chronic premises Systemic Sharp locals Acute systemic Chronic Chronic systemic Chronic Chronic Chronic Systemic Chronic Systemic	VLA I	ESP				2				
TU-ACGIH 2 (C) Health - Derived No-Effect Level - DNEL / DMEL Effects on consumers Effects on workers Exposure Way Sharp locals Acute systemic premises Sharp locals Acute systemic Sharp locals Acute systemic Sharp locals Acute systemic Sharp locals Acute systemic Chronic systemic Chroic systemic Chronic systemic<	VLEP I	BETWEEN	2							
Alter on Effect Level - DNEL / DMEL Effects on workers Exposure Way Sharp locals Acute systemic Chronic Sharp locals Acute Chronic Sharp locals Acute Chronic Sharp locals Acute Chronic Sharp locals Acute Chronic Systemic Premises Systemic Systemi	WELL	GBR				2				
Effects on consumers Effects on workers Exposure Way Sharp locals Acute systemic premises systemic Chronic systemic Sharp locals Acute Chronic systemic Chronic systemic Chronic Sharp locals Acute Systemic Chronic systemic Systemic	TLV-ACGIH					2 (C)				
Consumers Workers Exposure Way Sharp locals Acute systemic Chronic Sharp locals Acute Systemic Sharp locals Systemic Sharp locals Acute Systemic Acute systemic Sharp locals Acute systemic Sharp locals Acute systemic Acute systemic Acute syste	Health - Derived No-Ef			MEL						
premises systemic systemic systemic premises systemic Inhalation 1 mg/m3										
Inhalation 1 mg/m3 1 m	Exposure Way	Sharp	locals	Acute systemic			Sharp locals			Chronic
 c = CEILING ; INALAB = Inhalable Fraction ; RESPIR = Respirable Fraction ; TORAC = Thoracic Fraction. ND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified; LOW = low hazard; MED = tzard; HIGH = high hazard. 8.2. Exposure controls ansidering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilat orkplace through effective local extraction. Then choosing personal protective equipment, seek advice from your chemical suppliers. ersonal protective equipment must bear the CE marking which certifies their compliance with current regulations. rovide emergency shower with eye basin. AND PROTECTION rotect of work gloves. or the final choice of work gloves. or the final choice of work glove material (ref. EN 374 standard) the following must be considered: compatibility, degradation, permeation time. the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not predictable. Gloves have a rai depends on the duration and method of use. KIN PROTECTION YE PROTECTION 	Inhalation							systemic		1 mg/m3
 = CEILING ; INALAB = Inhalable Fraction ; RESPIR = Respirable Fraction ; TORAC = Thoracic Fraction. D = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified; LOW = low hazard; MED = tard; HIGH = high hazard. 8.2. Exposure controls asidering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilat replace through effective local extraction. en choosing personal protective equipment, seek advice from your chemical suppliers. rsonal protective equipment must bear the CE marking which certifies their compliance with current regulations. wide emergency shower with eye basin. ND PROTECTION the final choice of work glove material (ref. EN 374 standard) the following must be considered: compatibility, degradation, permeation time. he case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not predictable. Gloves have a it depends on the duration and method of use. IN PROTECTION and method of use. IN PROTECTION and the distribution of the second standard of the following must be considered: compatibility, degradation, permeation time. he case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not predictable. Gloves have a it depends on the duration and method of use. IN PROTECTION are long to be a standard of the second standard of the second standard is a standard in the following must be considered: compatibility, degradation, permeation time. he case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not predictable. Gloves have a it depends on the duration and method of use. IN PROTECTION are long-sleeved work clothes and category III professional safety footwear (ref. Regulatio										
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		r a hood visor	r or prote	ctive visor comb	ined with air	tight glasses (ref. s	standard EN IS	SO 16321).		
ne use of respiratory protection devices is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the			es is nece	essary if the tech	hnical meas	ures adopted are r	not sufficient to	limit the w	vorker's exposur	e to the thresh

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values taken into consideration. It is recommended to wear a mask with a type A filter, the class of which (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387).

In case the substance in question is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. standard EN 137) or an external air-supplied respirator (ref. standard EN 138). For the correct choice of respiratory protection device, refer to standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from manufacturing processes, including those from ventilation equipment, should be monitored to comply with environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property Physical State	Value pasta	Information
Color	Havana	
Odor	characteristic of solvent	
Melting or freezing point	not available	
Initial boiling point	not available	
Flammability	non-flammable	
Lower explosive limit	not applicable	
Upper explosive limit	not applicable	
Flash point	> 90 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	14	
Kinematic viscosity	not available	
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapor pressure	not available	
Density and/or Relative Density	0.94 kg/l	
Relative vapor density	not available	
Particle Characteristics	not applicable	
9.2. Other information		
9.2.1. Information relating to physical hazard c	lasses	
Information not available		
9.2.2. Other security features		
VOC (Directive 2010/75/EU)	61.70% - 580.00	g/liter
Explosive properties	non-explosive	
Oxidizing properties	non-oxidizing	

SECTION 10. Stability and reactivity

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10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, no hazardous reactions are expected.

10.4. Conditions to avoid

None in particular. However, take the usual precautions when handling chemicals.

10.5. Incompatible materials

BENZYL ALCOHOL

Incompatible with: sulfuric acid, oxidizing substances, aluminum.

SODIUM HYDROXIDE

Incompatible with: strong acids, ammonia, zinc, lead, aluminum, water, flammable liquids.

10.6. Hazardous decomposition products

2-BUTOXYETHANOL

May develop: hydrogen.

SECTION 11. Toxicological information

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

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Immediate, delayed and chronic effects resulting from short and long-term exposure

Information not available

Interactive effects

Information not available

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ACUTE TOXICITY

ATE (Inhalation - vapors) of the mixture: ATE (Oral) of the mixture: ATE (Cutaneous) of the mixture:

DIETHYLENE GLYCOL MONOETHYL ETHER LD50 (Dermal): LD50 (Oral): LC50 (Inhalation of vapours):

Silicic acid, calcium salt (crystalline) LC50 (Inhalation of mists/dusts):

3-methoxy-3-methyl-1-butanol LD50 (Dermal): LD50 (Oral):

2-BUTOXYETHANOL LD50 (Dermal): LD50 (Oral): LC50 (Inhalation of vapours):

BENZYL ALCOHOL LD50 (Dermal): LD50 (Oral): LC50 (Inhalation of vapours):

SODIUM HYDROXIDE LD50 (Dermal): LD50 (Oral):

SKIN CORROSION / SKIN IRRITATION

Corrosive to the skin

Classification based on the experimental value of the pH

SERIOUS EYE DAMAGE / EYE IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITIZATION

Skin sensitizer

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

> 20 mg/l>2000 mg/kgNot classified (no relevant components)

9143 mg/kg rabbit 6031 mg/kg mouse (male) 0.02 mg/l/8h rat

> 4.9 mg/l/4h inhalation rat

> 2000 mg/kg Rat 4400 mg/kg Female rat

> 2000 mg/kg Guinea pig (OECD - guideline 402)
 > 1200 mg/kg Guinea pig
 3 mg/l/4h Rat

2000 mg/kg Rabbit 1200 mg/kg Rat > 4.1 mg/l/4h Rat

1350 mg/kg Rat 1350 mg/kg Rat

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SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

Use according to good working practices, avoiding dispersal of the product into the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

12.1. Toxicity

2-BUTOXYETHANOL

Aquatic toxicity assessment (supplier): The product is most likely not harmful to aquatic organisms. There is a high probability that the product is not chronically harmful to aquatic organisms. Correct introduction of low concentrations into a biological wastewater treatment plant should not compromise the degradation activity of the activated sludge. Terrestrial toxicity assessment (supplier): Study not scientifically justified. DIETHYLENE GLYCOL MONOETHYL

ETHER	6010 ma///06h fish
LC50 - Fish	6010 mg/l/96h fish
EC50 - Crustaceans	1982 mg/l/48h daphnia magna
EC50 - Algae / Aquatic Plants	> 100 mg/l/96h scenedesmus subspicatus
2-BUTOXYETHANOL	
LC50 - Fish	1474 mg/l/96h oncorhynchus mykiss
EC50 - Crustaceans	1550 mg/l/48h daphnia magna
EC50 - Algae / Aquatic Plants	1840 mg/l/72h pseudokirchneriella subcapitata
NOEC Chronic Fish	> 100 mg/l Brachydanio rerio
NOEC Chronic Crustaceans	100 mg/l daphnia magna
BENZYL ALCOHOL	
LC50 - Fish	460 mg/l/96h Pimephales promelas
EC50 - Crustaceans	230 mg/l/48h daphnia magna
EC50 - Algae / Aquatic Plants	770 mg/l/72h Pseudokircheneriella subcapitata
3-methoxy-3-methyl-1-butanol	
LC50 - Fish	> 100 mg/l/96h Oryzias latipes
EC50 - Crustaceans	> 1000 mg/l/48h Daphnia Magna
EC50 - Algae / Aquatic Plants	> 1000 mg/l/72h Raphidocelis subcapitata

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2.2. Persistence and degradability			
Silicic acid, calcium salt (crystalline) The substance is inorganic and therefore not subject to	biodegradation.		
SODIUM HYDROXIDE			
Solubility in water	> 10000 mg/l		
Degradability: data 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			
3-methoxy-3-methyl-1-butanol			
Rapidly degradable			
2.3. Bioaccumulative potential			
Silicic acid, calcium salt (crystalline) The substance is inorganic, therefore not subject to acc	cumulation.		
DIETHYLENE GLYCOL MONOETHYL ETHER			
Partition coefficient: n-octanol/water	-0.54		
BCF	< 100 poorly bioaccumulative		
2-BUTOXYETHANOL			
Partition coefficient: n-octanol/water	0.81		
BCF	3.16 (calculated QSAR value). This substance i bioaccumulate.	is not expected to	
BENZYL ALCOHOL			
Partition coefficient: n-octanol/water	1.1		
3-methoxy-3-methyl-1-butanol			
Partition coefficient: n-octanol/water	0.18		
2.4. Mobility in soil			
Silicic acid, calcium salt (crystalline) The substance has a low potential for absorption.			

2-BUTOXYETHANOL Assessment of transport between environmental compartments (supplier): The substance does not evaporate into the atmosphere from the water surface. Adsorption to the solid phase of soil is not expected. Study not scientifically justified. Stability in water: Not expected to be immediately hydrolyzed; does not contain functional groups that are considered to be hydrolyzed in water. Stability in soil: Low adsorption to soil particles is expected.

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12.5. Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in percentage $\geq 0.1\%$.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal Considerations

13.1. Waste treatment methods

Reuse, if possible. Product residues are to be considered hazardous special waste. The hazardousness of wastes containing part of this product must be assessed according to the current legislative provisions.

Disposal must be entrusted to a company authorised to manage waste, in compliance with national and, where applicable, local legislation. The transport of waste may be subject to ADR.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1760

14.2. UN official shipping name

ADR / RID:	CORROSIVE LIQUID, NOS (Sodium Hydroxide)
IMDG:	CORROSIVE LIQUID, NOS (sodium hydroxide)
IATA:	CORROSIVE LIQUID, NOS (sodium hydroxide)

14.3. Transport hazard classes

ADR / RID:	Class: 8	Label: 8
IMDG:	Class: 8	Label: 8
IATA:	Class: 8	Label: 8



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ADR / RID, IMDG,	IATA: III			
4.5. Environmental	hazards			
ADR / RID:	NO			
IMDG:	non-marine pollutant			
IATA:	NO			
4.6. Special precaut	tions for users			
ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5 L	Tunnel restriction code: (E)	
	Special provision: 274	_		
IMDG:	EMS: FA, SB	Limited Quantities: 5		
IATA:	Cargo:	L Maximum quantity: 60 L	Packaging Instructions:	
	Passengers:	Maximum quantity: 5 L	856 Packaging Instructions:	
	Special provision:	A3, A803	852	
relevant information				
SECTION 15.	Regulatory Information			
15.1. Legislative a	nd regulatory provisions on health, safety and environm	nent specific for the substance or mix	ture	
Seveso Category - Dir	rective 2012/18/EU: None			
estrictions relating to	the product or the substances contained in accordance with	Annex XVII of Regulation (EC) 1907/20	006	
Product Point	3			
Substances contained	1			
Point	75			
Regulation (EU) 2019	/1148 - on the placing on the market and use of explosives p	recursors		
ot applicable				
ubstances in Candid	ate List (Art. 59 REACH)			
ased on available da	ata, the product does not contain SVHC substances in percer	ntage ≥ 0.1%.		

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Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to export notification requirement Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health Checks

Workers exposed to this chemical agent which is hazardous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been developed for the following substances in the mixture: Sodium hydroxide, Silicic acid, calcium salt (crystalline), 3-methoxy-3-methyl-1-butanol, diethylene glycol monoethyl ether, 2-butoxyethanol, benzyl alcohol

SECTION 16. Other information

Text of the hazard statements (H) cited in sections 2-3 of the sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
H290	May be corrosive to metals.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H314	Causes severe skin burns and serious eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

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···		
1317	May cause an allergic skin reaction.	
GEND:		
DR: European A	Agreement concerning the carriage of dangerous goods by road	
	Ite Toxicity Estimation Abstract Service Number	
	Abstract Service Number on number in ESIS (European archive of existing substances)	
P: Regulation	n (EC) 1272/2008	
	No Effect Level	
C50: Concentra nS: Emergency	ration that produces an effect in 50% of the test population cy Schedule	
HS: Globally Ha	Harmonized System of Classification and Labelling of Chemicals	
TA DGR: Interr	ernational Air Transport Association Dangerous Goods Regulations	
	ation concentration of 50% of the test population onal Maritime Dangerous Goods Code	
	onal Maritime Dangerous Goods Code nal Maritime Organization	
IDEX: Identifica	cation number in Annex VI of CLP	
	oncentration 50%	
050: Lethal dos EL: Occupation	ose 50% onal Exposure Level	
BT: Persistent,	t, bioaccumulative and toxic	
EC: Predicted e	environmental concentration	
EL: Predicted ex MT: Persistent.	exposure level t, mobile and toxic	
,	and toxic and to	
EACH: Regulati	ation (EC) 1907/2006	
ID: Regulations	ns for the international carriage of dangerous goods by train	
	Limit Value Concentration that should not be exceeded during any time of occupational exposure.	
WA: Time Weig	ighted Average Exposure Limit	
	ort-term exposure limit	
	rganic compound sistent and Very Bioaccumulative	
/PvM: Very persi	sistent and very mobile	
	azard class (Germany).	
ENERAL BIBLIO	OGRAPHY: C) 1907/2006 of the European Parliament (REACH)	
	C) 1907/2006 of the European Parliament (REACH) C) 1272/2008 of the European Parliament and of the Council (CLP)	
Regulation (EU)	J) 2020/878 (Annex II REACH Regulation)	
Regulation (EC)	C) 790/2009 of the European Parliament (I Atp. CLP)	
	J) 286/2011 of the European Parliament (II Atp. CLP) J) 618/2012 of the European Parliament (III Atp. CLP)	
Regulation (EU)	J) 487/2013 of the European Parliament (IV Atp. CLP)	
Regulation (EU)	J) 944/2013 of the European Parliament (V Atp. CLP)	
0 ()	J) 605/2014 of the European Parliament (VI Atp. CLP) EU) 2015/1221 of the European Parliament (VII Atp. CLP)	
	EU) 2016/918 of the European Parliament (VII Atp. CLP)	
. Regulation (EL	EU) 2016/1179 (IX Atp. CLP)	
	EU) 2017/776 (X Atp. CLP)	
	EU) 2018/669 (XI Atp. CLP) EU) 2019/521 (XII Atp. CLP)	
6. Delegated Reg	egulation (EU) 2018/1480 (XIII Atp. CLP)	
7. Regulation (EL		
	egulation (EU) 2020/217 (XIV Atp. CLP) equlation (EU) 2020/1182 (XV Atp. CLP)	
	egulation (EU) 2020/1182 (XV Atp. CLP) egulation (EU) 2021/643 (XVI Atp. CLP)	
I. Delegated Reg	egulation (EU) 2021/849 (XVII Atp. CLP)	
	egulation (EU) 2022/692 (XVIII Atp. CLP) egulation (EU) 2023/707	
	egulation (EU) 2023/707 egulation (EU) 2023/1434 (XIX Atp. CLP)	
5. Delegated Reg	egulation (EU) 2023/1435 (XX Atp. CLP)	
The Merck Index.		
Chemical Safety		

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