				Revision No. 8
	MARBEC	SRL		Revision No. o
				Revision date 02/12/2025
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				Replaces revision:7 (Revision date: 01/16/2023)
	Sa	fety Data Sh	eet	
		Annex II of REACH - Regu		
		0		
			(1	
SECTION 1. Ident	ification of the substan	ce/mixture and of	the company/under	taking
1.1. Product identifier				
Code:	0030			
Name				
Chemical name and synor	nyms MET	AL STRIP		
1.2. Relevant identified u	uses of the substance or mixture	e and uses advised again	ist	
		and dood daviood ugan		
Sector of use	SU22 – Professional uses			
Sector of use	SOZZ - FIOlessional uses			
Product Category	PC35 – Washing and clea	aning products (including	g solvent-based products)	
			,,	
Deceriation // Jac				
Description/Use	Alkaline / solvent wax remo	over cleaner		
1.3. Details of the suppli	er of the safety data sheet			
Company Name		BEC SRL		
Address	CRC	CE ROSSA STREET 5/i		
Location and State	5103	7 MONTALE (PISTOIA)		
	ITAL	Y		
	tel	-039 0573/959848		
e-mail of the competent pe	erson,			
responsible for the safety	data sheet info	@marbec.it		
1.4. Emergency telephor	ne number			
For urgent information ple				
MARBEC srl				
0573959848 8.30am-1pm 2	pm-6pm or +39 3348578502			
	on Control Centers active 24/7			
National Poisons Informati	on Service (Birmingham Unit) +	44 844 892 0111		
SECTION 2. Haza	rds identification			
2.1. Classification of the su	ibstance or mixture			
The product is classified as o	dangerous according to the provisi	ons of Regulation (EC) 12	72/2008 (CLP) (and subsequ	ent amendments and adjustments).
	es a safety data sheet compliant w			
	garding health and/or environment			
		-		
Classification and hazard sta	itements:			
Skin corrosion, category 1		H314	Causes severe skin burns a	and serious eve damage.
Serious eye damage, cate		H318	Causes serious eye damag	
	sity - single exposure, category 3	H335	May irritate respiratory tract	
Skin sensitization, categor		H317	May cause an allergic skin	
	-		,	

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2.2. Label elements

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

Hazard pictograms:	!
Warnings:	Danger
Hazard statements:	
H314	Causes severe skin burns and serious eye damage.
H335	May irritate respiratory tract.
H317	May cause an allergic skin reaction.
Precautionary advice:	
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.
P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
Contains:	Sodium Metasilicate Pentahydrate, Ethanolamine, Benzyl Alcohol
Product not intended for	uses envisaged by Directive 2004/42/EC.
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 co	ntain substances with endocrine-disrupting properties in concentrations $\geq 0.1\%$ .

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

3.2. Mixtures

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Contains:

Identification	Conc. %	Classification 1272/2008 (CLP)
ETHANOLAMINE		
INDEX 603-030-00-8 EC 205-483-3	9 ≤ x < 15	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412 STOT SE 3 H335: ≥ 5%
CAS 141-43-5		LD50 Oral: 1089 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours:
		11 mg/l
REACH Reg. 01-2119486455-28		
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 METASILICATE PENTAHYDRATE INDEX -	3≤x<9	Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335
EC 600-279-4	5 - X · 0	
CAS 10213-79-3		
REACH Reg. 012119449811-37		
sodium cumene sulfonate		
INDEX -	3 ≤ x < 9	Eve Irrit. 2 H319
EC 248-983-7		
CAS 28348-53-0		
REACH Reg. 01-2119489411-37- 0001		
2-BUTOXYETHANOL		
INDEX 603-014-00-0	3 ≤ x < 9	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		
1-METHOXY-2-PROPANOL		
INDEX 603-064-00-3	1 ≤ x < 3	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-539-1		
CAS 107-98-2		
REACH Reg. 01-2119457435-35		
Alcohols, branched C12-15 and linear, ethoxylated propoxylated INDEX	1 ≤ x < 3	Eye Irrit. 2 H319, Skin Irrit. 2 H315
THERE IS -		
CAS 120313-48-6		

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### **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 any contact lenses. Wash immediately with plenty of water for at least 30/60 minutes, holding the eyelids wide open. Consult a doctor immediately.

SKIN: Remove contaminated clothing. Shower immediately. Seek medical attention immediately.

INGESTION: Drink as much water as possible. Seek medical attention immediately. Do not induce vomiting unless directed by a physician.

INHALATION: Call a doctor immediately. Move the person to fresh air, away from the accident site. If breathing stops, perform artificial respiration. Take appropriate precautions for the rescuer.

#### 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

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).

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

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### 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 responders.

### 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.

Ensure 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

Keep away from heat, sparks and naked flames, do not smoke or use matches or lighters. Without adequate ventilation, vapors can accumulate on the floor and ignite even at a distance, if triggered, with the risk of backfire. Avoid accumulation of electrostatic charges. Do not eat, drink or smoke during use. Remove contaminated clothing and protective devices before entering eating areas. Avoid dispersion of the product into the environment.

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

Store only in the original container. Store in a cool, well-ventilated place away from heat, open flames, sparks and other sources of ignition. Store containers away from any incompatible materials, see section 10.

Storage class TRGS 510 (Germany):

### 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 gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	Spain	Professional exposure limits for chemical agents in Spain 2023
BETWEEN	France	Limits on professional exposure to chemical agents in France Decree n° 2021-1849 of 28 December 2021
ITA	Italy	Legislative Decree 9 April 2008, n.81
PRT	Portugal	Decree-Lei n.º 1/2021 of 6 January, indicative professional exposure limit values for chemical agents. Legislative Decree no. 35/2020 of 13 July, protection of workers against risks linked to exposure during work with cancerous or mutagenic agents
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;

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Reference value for sediments in fresh water

Reference value for water, intermittent release Reference value for STP microorganisms

Reference value for sediments in seawater

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

т	LV-ACGIH		2004/37/EC; Dir ACGIH 2023	ective 2000/3	9/EC; Directive 98/24	/EC; Directive 91	/322/EEC.		
ETHANOLAMIN									
Threshold limit	State	TWA/8	h		STEL/15min		Notes /	iono	
		mg/m3		ppm	mg/m3	ppm	Observat	IONS	
AGW	DEU	0.5		0.2	0.5	0.2	SKIN	11	
MAKE	DEU	0.51		0.2	0.51	0.2			
VLA	ESP	2.5		1	7.5	3	SKIN		
VLEP	BETWEEN	2.5		1	7.6	3	SKIN		
VLEP	ITA	2.5		1	7.6	3	SKIN		
VLE	PRT	2.5		1	7.6	3	SKIN		
WELL	GBR	2.5		1	7.6	3	SKIN		
OEL	EU	2.5		1	7.6	3	SKIN		
TLV-ACGIH		7.5		3	15	6			
Predicted no-effect	concentration - PNI	EC							
Reference value in	fresh water				0.085	mg	/I		
Reference value in	sea water				0.0085	mg	/I		
Reference value fo	r sediments in fresh	water			0.425	mg	/kg		
Reference value fo	r sediments in seaw	ater			0.0425	mg	/kg		
Reference value fo	r water, intermittent	release			0.025	mg	/I		
Reference value fo	r STP microorganis	ns			100	mg	/I		
Reference value for	r the terrestrial com	partment			0.035	mg	/kg		
Health - Derived		I - DNEL / D ects on isumers	MEL			Effects on workers			
Exposure Way		arp locals	Acute systemic	Chronic premises	Chronic systemic	Sharp locals	Acute systemic	Chronic premises	Chronic systemic
Oral				premises	3.75 mg/kg/d		Systemic	premises	Systemic
Inhalation				2 mg/m3				3.3 mg/m3	
Dermal					0.24 mg/kg/d				1 mg/kg/day
BENZYL ALCO									
Туре	State	TWA/8	h		STEL/15min		Notes /		
		mg/m3		ppm	mg/m3	ppm	Observat	ions	
AGW	DEU	22		5	44	10	SKIN	11	
MAKE	DEU	22		5	44	10	SKIN		
Predicted no-effect	concentration - PNI	EC							
Reference value in	fresh water				1	mg	/I		
Reference value in	sea water				0.1	mg	/I		

5.27

0.527 2.3

39

mg/kg mg/kg

mg/l

mg/l

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lealth - Derived No	Effect Level	DNEL / D	MEI						
ieann - Denveu No-	Effect: Effect: consu	s on				Effects on workers			
xposure Way	Sharp	locals	Acute systemic	Chronic premises	Chronic systemic	Sharp locals	Acute systemic	Chronic premises	Chronic systemic
ral			20 mg/kg bw/d		4 mg/kg bw/d				
nalation			27 mg/m3		5.4 mg/m3		110 mg/m3		22 mg/m3
ermal			20 mg/kg bw/d		4 mg/kg bw/d		40 mg/kg bw/d		8 mg/kg bv
ODIUM METASILIC									
					7.5		/1		
eference value in fresh					7.5	mg			
eference value in sea					1	mg	/I		
Reference value for sedi					VND				
Reference value for sedi					VND				
Reference value for wate					7.5	mg	/I		
Reference value for STP					1000	mg	/I		
Reference value for the	terrestrial compar	tment			VND				
Health - Derived No-	-Effect Level - Effects consu	s on	MEL			Effects on workers			
				Ohanaia	Chronic	Sharp locals	Aquita	Ohanaia	Chronic
Exposure Way		locals	Acute systemic	Chronic		onarp locals	Acute	Chronic	
		locals	Acute systemic	premises	systemic 0.74 mg/kg		systemic	premises	systemic
Dral		locals	Acute systemic		systemic 0.74 mg/kg bw/d				systemic
Dral nhalation Dermal	Sharp	locals	Acute systemic		systemic 0.74 mg/kg				
Dral nhalation Dermal sodium cumene sul	Sharp		Acute systemic		systemic 0.74 mg/kg bw/d 1.55 mg/m3 0.74 mg/kg bw/d				6.22 mg/m 1.49 mg/kg
Dral nhalation Dermal Sodium cumene sul Predicted no-effect conc Reference value in fresh	Sharp fonate entration - PNEC water		Acute systemic		systemic 0.74 mg/kg bw/d 1.55 mg/m3 0.74 mg/kg bw/d 0.23	mg	systemic		6.22 mg/m 1.49 mg/kg
Dral nhalation Dermal <b>sodium cumene sul</b> Predicted no-effect conc Reference value in fresh	Sharp fonate entration - PNEC water		Acute systemic		systemic 0.74 mg/kg bw/d 1.55 mg/m3 0.74 mg/kg bw/d		systemic //		6.22 mg/m 1.49 mg/kg
Dral nhalation Dermal Sodium cumene sult Predicted no-effect conc Reference value in fresh Reference value for wate	Sharp fonate entration - PNEC water er, intermittent rele		Acute systemic		systemic 0.74 mg/kg bw/d 1.55 mg/m3 0.74 mg/kg bw/d 0.23	mg	systemic //		6.22 mg/m 1.49 mg/kg
Dral nhalation Dermal Sodium cumene sul Predicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF	Sharp fonate entration - PNEC water Pricroorganisms -Effect Level - Effects	ease DNEL / D s on			systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d	mg mg Effects on	systemic //		6.22 mg/m
Dral nhalation Dermal Sodium cumene sul Predicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No-	Sharp fonate entration - PNEC water er, intermittent rele microorganisms •Effect Level - Effect consu	ease DNEL / D s on		Chronic	systemic 0.74 mg/kg bw/d 1.55 mg/m3 0.74 mg/kg bw/d 0.23 2.3 100 Chronic	mg mg mg	systemic // // // //	Chronic	systemic 6.22 mg/m 1.49 mg/kg bw/d
Dral nhalation Dermal Sodium cumene sul Predicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way	Sharp fonate entration - PNEC water er, intermittent rele microorganisms •Effect Level - Effect consu	ease DNEL / D s on mers	MEL	premises	systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d           0.23           2.3           100           Chronic           systemic           3.8 mg/kg	mg mg Effects on workers	systemic //	premises	systemic 6.22 mg/m 1.49 mg/kg bw/d
Dral nhalation Dermal Sodium cumene sul Predicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way Dral	Sharp fonate entration - PNEC water er, intermittent rele microorganisms •Effect Level - Effect consu	ease DNEL / D s on mers	MEL	Chronic	systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d	mg mg Effects on workers	systemic // // // //	Chronic	6.22 mg/mi 6.22 mg/mi 1.49 mg/kg bw/d
Dral Inhalation Dermal Sodium cumene sult Predicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way Dral	Sharp fonate entration - PNEC water er, intermittent rele microorganisms •Effect Level - Effect consu	ease DNEL / D s on mers	MEL	Chronic	systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d           0.23           2.3           100           Chronic           systemic           3.8 mg/kg           bw/d           13.2 mg/m3	mg mg Effects on workers	systemic // // // //	Chronic	Systemic 6.22 mg/m 1.49 mg/kg bw/d Chronic Systemic 53.6 mg/m
Exposure Way Oral Inhalation Dermal Sodium cumene sult Predicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way Oral Inhalation Dermal	Sharp fonate entration - PNEC water er, intermittent rele microorganisms •Effect Level - Effect consu	ease DNEL / D s on mers	MEL	Chronic	systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d	mg mg Effects on workers	systemic // // // //	Chronic	6.22 mg/mi 6.22 mg/mi 1.49 mg/kg bw/d
Dral Inhalation Dermal Sodium cumene sul Predicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way Oral Inhalation Dermal 2-BUTOXYETHANO	Sharp fonate entration - PNEC water er, intermittent rele microorganisms -Effect Level - Effects consu Sharp	ease DNEL / D s on mers	MEL	Chronic	systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d           0.23           2.3           100           Chronic           systemic           3.8 mg/kg           bw/d           3.8 mg/kg           systemic           3.8 mg/kg	mg mg Effects on workers	systemic // // // //	Chronic	Systemic 6.22 mg/m 1.49 mg/kg bw/d Chronic Systemic 53.6 mg/m 7.6 mg/kg
Dral Dral Dermal Dermal Dermal Deredicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way Dral Inhalation Dermal P-BUTOXYETHANOI Inreshold limit valu	Sharp fonate entration - PNEC water er, intermittent rele microorganisms -Effect Level - Effects consu Sharp	ease DNEL / D s on mers	MEL Acute systemic	Chronic	systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d           0.23           2.3           100           Chronic           systemic           3.8 mg/kg           bw/d           3.8 mg/kg           systemic           3.8 mg/kg	mg mg Effects on workers	systemic	premises	Systemic 6.22 mg/m 1.49 mg/kg bw/d Chronic Systemic 53.6 mg/m 7.6 mg/kg
Dral Dral Dermal Dermal Dermal Deredicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way Dral Inhalation Dermal P-BUTOXYETHANOI Intreshold limit valu	Sharp fonate entration - PNEC water r, intermittent rele r microorganisms -Effect Level - Effects consu Sharp Sharp	ease DNEL / D s on mers locals	MEL Acute systemic	Chronic	systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d           0.23           2.3           100           Chronic systemic           3.8 mg/kg           bw/d           13.2 mg/m3           3.8 mg/kg           bw/d	mg mg Effects on workers	systemic // // // // Acute systemic	premises	Systemic 6.22 mg/m 1.49 mg/kg bw/d Chronic Systemic 53.6 mg/m 7.6 mg/kg
Dral Dral Dermal Dermal Dermal Dermal Deredicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way Dral Inhalation Dermal Pype	Sharp fonate entration - PNEC water r, intermittent rele r microorganisms -Effect Level - Effects consu Sharp Sharp	ease DNEL / D s on mers locals	MEL Acute systemic	premises	systemic           0.74 mg/kg           bw/d           1.55 mg/m3           0.74 mg/kg           bw/d           0.23           2.3           100           Chronic           systemic           3.8 mg/kg           bw/d           13.2 mg/m3           3.8 mg/kg           bw/d           STEL/15min	mg mg Effects on workers Sharp locals	systemic	premises	Systemic 6.22 mg/m 1.49 mg/kg bw/d Chronic Systemic 53.6 mg/m 7.6 mg/kg
Dral nhalation Dermal Sodium cumene sult Predicted no-effect conc Reference value in fresh Reference value for wate Reference value for STF Health - Derived No- Exposure Way Dral nhalation Dermal	Sharp fonate entration - PNEC water er, intermittent rele microorganisms -Effect Level - Effect consu Sharp L e State	ease DNEL / D s on mers locals TWA/8ł mg/m3 49	MEL Acute systemic	premises	systemic           0.74 mg/kg bw/d           1.55 mg/m3           0.74 mg/kg bw/d           0.23           2.3           100           Chronic systemic           3.8 mg/kg bw/d           13.2 mg/m3           3.8 mg/kg bw/d           STEL/15min           mg/m3           98	Effects on workers Sharp locals	systemic // // // // // // // // // // // // //	premises	Systemic 6.22 mg/m 1.49 mg/kg bw/d Chronic Systemic 53.6 mg/m 7.6 mg/kg
Dral Dral Dermal	Sharp fonate entration - PNEC water er, intermittent rele microorganisms •Effect Level - Effect Level - Effect Sharp Sharp	ease DNEL / D s on mers locals	MEL Acute systemic	premises	systemic 0.74 mg/kg bw/d 1.55 mg/m3 0.74 mg/kg bw/d 0.23 2.3 100 Chronic systemic 3.8 mg/kg bw/d 13.2 mg/m3 STEL/15min mg/m3	Effects on workers Sharp locals Sharp locals	systemic // // // Acute systemic Notes / Observati	premises Chronic premises	Systemic 6.22 mg/m 1.49 mg/kg bw/d Chronic Systemic 53.6 mg/m 7.6 mg/kg

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	IT A	0.0		20	246	50	<u>CKIN</u>		
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 c	concentration - PN	NEC							
Reference value in fi	resh water				8.8	mg/	1		
Reference value in s	ea water				0.88	mg/	1		
Reference value for	sediments in fres	h water			34.6	mg/	kg		
Reference value for	sediments in sea	water			3.46	mg/	kg		
Reference value for	water, intermitten	nt release			9.1	mg/	1		
Reference value for	STP microorgani	sms			463	mg/	1		
Reference value for	the food chain (se	econdary poiso	oning)		20	mg/	kg		
Reference value for	the terrestrial con	npartment			2.33	mg/	kg		
Health - Derived		el - DNEL / [ ffects on	DMEL			Effects on			
_	CC	onsumers		01		workers			<u>.</u>
Exposure Way	S	harp locals	Acute systemic	Chronic premises	Chronic systemic	Sharp locals	Acute systemic	Chronic premises	Chronic systemic
Oral			26.7 mg/kg bw/d		6.3 mg/kg bw/d			·	
Inhalation	14	47 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3	1091 mg/m3	}	98 mg/m3
Dermal					38 mg/kg bw/d				
1-METHOXY-2-PI Threshold limit v									
Type	State	TWA/8	h		STEL/15min		Notes /		
		mg/m3		ppm	mg/m3	ppm	Observa	tions	
AGW	DEU	370		100	740	200			
MAKE	DEU	370		100	740	200			
VLA	ESP						SKIN		
		375		100	568	150			
VLEP	BETWEEN			50	375	100	SKIN		
VLEP	ITA	375		100	568	150	SKIN		
VLE	PRT	375		100	568	150			
WELL	GBR	375		100	560	150	SKIN		
OEL	EU	375		100	568	150	SKIN		
TLV-ACGIH		184		50	368	100			
Health - Derived	E	ffects on	DMEL			Effects on			
Exposure Way		onsumers harp locals	Acute systemic	Chronic	Chronic	workers Sharp locals	Acute	Chronic	Chronic
		1		premises	systemic		systemic	premises	systemic
Oral				VND	3.3 mg/kg bw/d				
Inhalation				VND	43.9 mg/m3	553.5 mg/m3	VND		369 mg/m3
Dermal				VND	18.1 mg/kg bw/d		VND		50.6 mg/kg bw/d

Legend:

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(C) = CEILING ; INALAB = Inhalable Fraction ; RESPIR = Respirable Fraction ; TORAC = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified; LOW = low hazard; MED = medium hazard; HIGH = high hazard.

#### 8.2. Exposure controls

Considering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local extraction.

When choosing personal protective equipment, seek advice from your chemical suppliers.

Personal protective equipment must bear the CE marking which certifies their compliance with current regulations.

Provide emergency shower with eye basin.

#### HAND PROTECTION

Protect hands with category III work gloves (ref. Directive 89/686/EEC and standard EN 374) such as PVA, butyl, fluoroelastomer or equivalent. - Material: Butyl rubber, PVC, polychloroprene with natural latex coating, material thickness: 0.5 mm, penetration time: > 480 min. - Material: rubber nitrile, rubber fluorinated, thickness of the material: 0.35-0.4 mm, time Of penetration: > 480 min. Remarks: For the final choice of work glove material, the following must be considered: compatibility, degradation, break-through time and permeation.

#### SKIN PROTECTION

Wear long-sleeved work clothes and category II professional safety footwear (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

#### EYE PROTECTION

It is recommended to wear airtight protective glasses (ref. standard EN ISO 16321).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded (e.g. use in unventilated environments, formation of dust or aerosols), use respiratory protection equipped with a combined filter of the ABEK-P1 type, the class of which (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.) are present, combined type filters must be provided.

The use of respiratory protection devices is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. The protection offered by masks is however limited.

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	Value	Information
Physical State	liquid	
Color	straw yellow	
Odor	characteristic	

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L				
l	Melting or freezing point	not available		
l	Initial boiling point	not available		
l	Flammability	not available		
l	Lower explosive limit	not applicable		
l	Upper explosive limit	not applicable		
l	Flash point	> 60 °C		
l		Combustion is not sustained	ed.	
l	Auto-ignition temperature	not available		
l	Decomposition temperature	not available		
l	pH	13-14		
l	Kinematic viscosity	not available		
l	Solubility	soluble in water		
l	Partition coefficient: n-octanol/water	not available		
l	Vapor pressure	not available		
l	Density and/or Relative Density	1.062 kg/l		
l	Relative vapor density	not available		
l	Particle Characteristics	not applicable		
l				
	9.2. Other information			
	9.2.1. Information relating to physical haza	ard classes		
	Flammable liquids			
	Maintaining combustion	does not maintain combus	tion	
	9.2.2. Other security features			
		45.050/ 400.00		
	VOC (Directive 2010/75/EU)	15.35% - 163.02	g/liter	
	Explosive properties	non-explosive		
	Oxidizing properties	non-oxidizing		
Т				

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

### BENZYL ALCOHOL

Decomposes above 870°C/1598°F.Possible explosion.

SODIUM METASILICATE PENTAHYDRATE

Aqueous solutions behave as: strong bases. Corrodes: aluminum, zinc, tin, aluminum alloys, zinc alloys, tin alloys.

2-BUTOXYETHANOL

It decomposes under the effect of heat.

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1-METHOXY-2-PROPANOL

Dissolves various plastics. Stable under normal conditions of use and storage.

It absorbs and dissolves in water and organic solvents. In air it can slowly give explosive peroxides.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

#### ETHANOLAMINE

May react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulfuric acid, hydrogen chloride, iron-sulfur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulfuric acid, strong acids, vinyl acetate, cellulose nitrate.

#### BENZYL ALCOHOL

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

SODIUM METASILICATE PENTAHYDRATE

Reacts violently with: acids.

2-BUTOXYETHANOL

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

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidizing agents, strong acids.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid static electricity. Avoid any source of ignition.

#### ETHANOLAMINE

Avoid exposure to: air, heat sources.

BENZYL ALCOHOL

Avoid exposure to: air, heat sources, open flames.

#### 2-BUTOXYETHANOL

Avoid exposure to: heat sources, open flames.

1-METHOXY-2-PROPANOL

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Avoid exposure to: air.

#### 10.5. Incompatible materials

ETHANOLAMINE

Incompatible with: iron, strong acids, strong oxidants.

BENZYL ALCOHOL

Incompatible with: sulfuric acid, oxidizing substances, aluminum.

1-METHOXY-2-PROPANOL

Incompatible with: oxidizing substances, strong acids, alkali metals.

#### 10.6. Hazardous decomposition products

Thermal decomposition or fire may release gases and vapours that are potentially harmful to health.

ETHANOLAMINE

May produce: nitrogen oxides, carbon oxides.

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

1-METHOXY-2-PROPANOL WORKERS: inhalation; skin contact. POPULATION: ingestion of contaminated food or water; inhalation of ambient air; skin contact with products containing the substance.

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

1-METHOXY-2-PROPANOL

The main route of entry is the skin, while the respiratory route is less important, given the low vapor pressure of the product. Above 100 ppm there is irritation of the ocular, nasal and oropharyngeal mucous membranes. At 1000 ppm there are disturbances in the balance and severe irritation to the eyes. Clinical and biological tests performed on exposed volunteers have not revealed anomalies. Acetate produces greater skin and eye irritation by direct contact. No chronic effects on humans are reported.

Interactive effects

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#### Information not available

ACUTE TOXICITY ATE (Inhalation - vapors) of the mixture: > 20 mg/l ATE (Oral) of the mixture: >2000 mg/kg ATE (Cutaneous) of the mixture: >2000 mg/kg ETHANOLAMINE LD50 (Dermal): 2504 mg/kg STA (Cutaneous): 1100 mg/kg estimate from Table 3.1.2 of Annex I of CLP (data used for the calculation of the estimate of the acute toxicity of the mixture) LD50 (Oral): 1089 mg/kg Rat > 1.3 mg/l/6h Rat LC50 (Inhalation of vapours): STA (Inhalation of vapors): 11 mg/l estimate from Table 3.1.2 of Annex I of CLP (data used for the calculation of the estimate of the acute toxicity of the mixture) BENZYL ALCOHOL LD50 (Dermal): 2000 mg/kg Rabbit LD50 (Oral): 1200 mg/kg Rat LC50 (Inhalation of vapours): > 4.1 mg/l/4h Rat SODIUM METASILICATE PENTAHYDRATE LD50 (Dermal): > 5000 mg/kg rat LD50 (Oral): > 1152 mg/kg rat LC50 (Inhalation of mists/dusts): > 2.06 g/m3 rat sodium cumene sulfonate LD50 (Dermal): > 2000 mg/kg LD50 (Oral): > 7000 mg/kg 2-BUTOXYETHANOL LD50 (Dermal): > 2000 mg/kg Guinea pig (OECD - guideline 402) LD50 (Oral): > 1200 mg/kg Guinea pig LC50 (Inhalation of vapours): 3 mg/l/4h Rat Alcohols, branched C12-15 and linear, ethoxylated propoxylated > 2000 mg/kg rat LD50 (Oral): 1-METHOXY-2-PROPANOL LD50 (Dermal): > 2000 mg/kg Rabbit 4016 mg/kg Rat LD50 (Oral): > 7000 mg/l/4h Rat LC50 (Inhalation of vapours): 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

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#### 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

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

May irritate respiratory tract

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.

#### 1-METHOXY-2-PROPANOL

The product is most likely not harmful to aquatic organisms. Correct introduction of low concentrations into a biological purification plant should not compromise the degradation activity of the activated sludge.

SODIUM METASILICATE PENTAHYDRATE LC50 - Fish	210 mg/l/96h brachydanio rerio
EC50 - Crustaceans	1700 mg/l/48h daphnia magna
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

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NOEC Chronic Crustaceans	100 mg/l daphnia magna	
ETHANOLAMINE		
NOEC Chronic Fish	1.2 mg/l Oryzias latipes	
NOEC Chronic Crustaceans	0.85 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 subcar	pitata
1-METHOXY-2-PROPANOL		
LC50 - Fish	> 6800 mg/l/96h leuciscus idus	
EC50 - Crustaceans	23300 mg/l/48h daphnia magna	
sodium cumene sulfonate		
LC50 - Fish	> 1000 mg/l/96h	
EC50 - Crustaceans	> 1000 mg/l/48h	
EC50 - Algae / Aquatic Plants	310 mg/l/72h	
Alcohols, branched C12-15 and linear, ethoxylated propoxylated LC50 - Fish	5 mg/l/96h	
2.2. Persistence and degradability		
DDIUM METASILICATE PENTAHYDRATE		
	polymerize producing molecular species that are indisting	uishable from natural silica.
DECD 301E/92/96/EEC, C 4-B) (aerobic, municip	D): Readily biodegradable (according to OECD criteria). al wastewater treatment plant effluent). In water, hydrolyt ays). OECD 301E test. Atmospheric vapour photodegrade	ic stability has not been determined but rap
Solubility in water	1000 - 10000 mg/l	
apidly degradable		
	4000 40000 ~~~//	
Solubility in water apidly degradable	1000 - 10000 mg/l	
BENZYL ALCOHOL		
apidly degradable		
1-METHOXY-2-PROPANOL Solubility in water	1000 - 10000 mg/l	
•	1000 - 10000 mg/i	
apidly degradable		
sodium cumene sulfonate apidly degradable		
Alcohols, branched C12-15 and linear, ethoxylated propoxylated		

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Rapidly degradable		
2.3. Bioaccumulative potential		
ODIUM METASILICATE PENTAHYDRATE norganic. The substance has no bioaccumulation po	tential.	
2-BUTOXYETHANOL Partition coefficient: n-octanol/water	0.81	
BCF		This substance is not expected to
ETHANOLAMINE		
Partition coefficient: n-octanol/water	-2.3	
BENZYL ALCOHOL		
Partition coefficient: n-octanol/water	1.1	
1-METHOXY-2-PROPANOL		
Partition coefficient: n-octanol/water	< 1	
sodium cumene sulfonate		
Partition coefficient: n-octanol/water	1.1 Log Kow	

# 12.6. Endocrine disrupting properties

12.5. Results of PBT and vPvB assessment

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.

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.

#### 12.7. Other adverse effects

Information not available

12.4. Mobility in soil

2-BUTOXYETHANOL

### **SECTION 13. Disposal Considerations**

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

#### 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.

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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

UN 1760 ADR / RID, IMDG, IATA:

#### 14.2. UN official shipping name

ADR / RID:	CORROSIVE LIQUID, NOS (ETHANOLAMINE; SODIUM METASILICATE PENTAHYDRATE)
IMDG:	CORROSIVE LIQUID, NOS (ETHANOLAMINE; SODIUM METASILICATE)
IATA:	CORROSIVE LIQUID, NOS (ETHANOLAMINE; SODIUM METASILICATE)

#### 14.3. Transport hazard classes

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

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#### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	non-marine pollutant
IATA:	NO

#### 14.6. Special precautions 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 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging Instructions: 856
	Passengers:	Maximum quantity: 5 L	Packaging Instructions: 852

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	Special provision:	A3, A803	
14.7. Bulk maritime transport in acco	rdance with IMO acts		
Irrelevant information			
SECTION 15. Regulatory	Information		
15.1. Legislative and regulatory pr	ovisions on health, safety and environ	ment specific for the substance or	mixture
Seveso Category - Directive 2012/18/E	J: None		
Restrictions relating to the product or th	e substances contained in accordance w	ith Annex XVII of Regulation (EC) 19	07/2006
Product Point	3 - 40		
Substances contained			
Point	75		
Regulation (EU) 2019/1148 - on the pla	cing on the market and use of explosives	precursors	
not applicable			
Substances in Candidate List (Art. 59 R	EACH)		
Based on available data, the product do	es not contain SVHC substances in perc	entage ≥ 0.1%.	
Substances subject to authorisation (Ar	nex XIV REACH)		
None			
Substances subject to export notification	n requirement Regulation (EU) 649/2012	-	
None			
Substances subject to the Rotterdam C	onvention:		
None			
Substances subject to the Stockholm C	onvention:		
None			
Health Checks			
	which is hazardous to health must be sul pril 2008 unless the risk to the safety and		

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#### 15.2. Chemical safety assessment

A chemical safety assessment has been developed for the following substances in the mixture: Ethanolamine, Benzyl alcohol, Sodium metasilicate pentahydrate, Sodium cumenesulfonate, 2-butoxyethanol.

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

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

Flam. Liq. 3	Flammable liquid, category 3
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. 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
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and serious eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May irritate respiratory tract.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of dangerous goods by road
- ATE / STA: Acute Toxicity Estimation
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration that produces an effect in 50% of the test population
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulations
- IC50: Immobilization concentration of 50% of the test population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of CLP

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LC50: Lethal Concentration 50%	
LD50: Lethal dose 50%	
OEL: Occupational Exposure Level PBT: Persistent, bioaccumulative and toxic	
PEC: Predicted environmental concentration	
PEL: Predicted exposure level	
PMT: Persistent, mobile and toxic PNEC: Predicted No Effect Concentration	
REACH: Regulation (EC) 1907/2006	
RID: Regulations for the international carriage 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 compound vPvB: Very Persistent and Very Bioaccumulative	
vPvM: Very persistent and very mobile	
WGK: Water hazard class (Germany).	
GENERAL BIBLIOGRAPHY:	
. Regulation (EC) 1907/2006 of the European Parliament (REACH)	
Regulation (EC) 1272/2008 of the European Parliament and of the Council (CLP) Regulation (EU) 2020/878 (Annex II REACH Regulation)	
. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)	
. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP) . Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)	
. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)	
. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)	
<ol> <li>Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)</li> <li>Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)</li> </ol>	
1. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)	
2. Regulation (EU) 2016/1179 (IX Atp. CLP) 3. Regulation (EU) 2017/776 (X Atp. CLP)	
4. Regulation (EU) 2017/776 (X Atp. CLP)	
5. Regulation (EU) 2019/521 (XII Atp. CLP)	
6. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP) 7. Regulation (EU) 2019/1148	
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)	
9. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)	
20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP) 21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)	
2. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)	
3. Delegated Regulation (EU) 2023/707 4. Delegated Regulation (EU) 2023/1434 (XIX Atp. CLP)	
5. Delegated Regulation (EU) 2023/1434 (XIX Atp. CLP)	
The Merck Index 10th Edition	
Chemical Safety Handling INRS - Fiche Toxicologique (toxicological sheet)	
Patty - Industrial Hygiene and Toxicology	
NI Sax - Dangerous properties of Industrial Materials-7, 1989 Edition IFA GESTIS Website	
ECHA Agency Website	
Database of SDS models of chemical substances - Ministry of Health and Istituto Superiore di Sanità	
lote for user:	The user must ensure the evitebility and
he information contained in this sheet is based on the knowledge available to us at the date of the last version ompleteness of the information in relation to the specific use of the product.	. The user must ensure the suitability and
his document should not be construed as a guarantee of any specific property of the product.	
ince the use of the product is not under our direct control, it is the user's obligation to observe under his own res egarding hygiene and safety. We assume no responsibility for improper use.	ponsibility the laws and provisions in force
Provide adequate training to personnel involved in the use of chemicals.	
CLASSIFICATION CALCULATION METHODS	Degulation Appay   Dort O. The method
Chemical-physical hazards: The classification of the product was derived from the criteria established by the CLF	- Regulation Annex I Part 2. The methods

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for evaluating the chemical-physical properties are reported in section 9. Health hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11. Environmental hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes from the previous revision Changes have been made to the following sections: 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 14 / 16.