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	Safety Data Sheet to REACH - Regulation 2020/878 and to Annex II to UK REA	
SECTION 1. Identification of the subs	stance/mixture and of the company/under	taking
1.1. Product identifier		
Code:	0035100	
Product name Chemical name and synonym	SPOTLESS SPOTLESS	
Chemical hame and synonym	SI 012233	
Product category Description/Usage PC35 - Washing and CARA Alkaline Concentrated	ixture and uses advised against ses SU - 21 Consumer uses cleaning products (including solvent based products) d Cleaner/Solvent for Work Clothes	
1.3. Details of the supplier of the safety data sheet		
Name Full address District and Country	MARBEC S.R.L. VIA CROCE ROSSA 5/i 51037 MONTALE (PISTOIA) ITALIA	
	Tel. +039 0573/959848	
	Fax	
e-mail address of the competent person		
responsible for the Safety Data Sheet		
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 800	0011858
	Roma 0039-06 49978000 CAV Ospedale Cardarelli – Napoli 0039-081 5453333	0011858

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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supplements). The produ	uct thus requires a safety datasheet in concerning the risks for health and	that complies with th	ne provisions of (EU) Regulation 2	
Skin corrosion, catego	ry 1A	H314	Causes severe skin burn	
Serious eye damage, of Hazardous to the aqua category 3	category 1 tic environment, chronic toxicity,	H318 H412	Causes serious eye dam Harmful to aquatic life wi	
2.2. Label elements				
Hazard labelling pursuar	nt to EC Regulation 1272/2008 (CLP) and subsequent a	mendments and supplements.	
Hazard pictograms:				
Le Res				
Signal words:	Danger			
Hazard statements:				
H314 H412 EUH208	Causes severe skin burns and Harmful to aquatic life with long Contains: , d-Limonene, sweet May produce an allergic reactio	lasting effects. orange Brasil oil		
Precautionary statement	s:			
P260 P305+P351+P338	Do not breathe dust / fume / ga IF IN EYES: Rinse cautiously w rinsing.			, if present and easy to do. Continue
P303+P361+P353 P280 P310 P301+P330+P331 P273		ive clothing / eye pro NTER / doctor / . Do NOT induce vo		water [or shower].
Contains:	POTASSIUM HYDROXIDE, Alcohols, C11-13-branched, eth Isotridecanol, ethoxylated (>5-		es EO)	
Ingredients in accorda	ance with Regulation (EC) No 648/	/2004		
Non-ionic surfactants ² Brasil Oil.	15%-30%, anionic surfactants <5%	, potassium hydrox	ide. Perfume: d-limonene, Orang	ge Sweet

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Isotridecanol, ethoxylated (>5- 20EO)		
CAS 69011-36-5	9 ≤ x < 25	Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 500-241-6		
INDEX -		
REACH Reg. 01-211997362-32-		
3-BUTOXY-2-PROPANOL		
CAS 5131-66-8	3≤x< 9	Flam. Liq. 3 H226, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 225-878-4		
INDEX 603-052-00-8		
REACH Reg. 01-2119475527-28-xxxx		
Alcoli, C11-13-ramificati, etossilati (>2.5 moli EO) CAS 68439-54-3 CE INDEX -	3≤x< 9	Acute Tox. 4 H302, Eye Dam. 1 H318 LD50 Orale: >300 mg/kg
1-METHOXY-2-PROPANOL		
CAS 107-98-2	3≤x< 9	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-539-1		
INDEX 603-064-00-3		
REACH Reg. 01-2119457435-35		
2-BUTOXYETHANOL		
CAS 111-76-2	3≤x< 9	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		LD50 Oral: 1200 mg/kg, STA Inhalation vapours: 11 mg/l
INDEX 603-014-00-0		
REACH Reg. 01-2119475108-36-		
0005 OLEIC ACID		
CAS 67701-08-0	1≤x< 3	
EC		
INDEX -		
Sodium etasulphate		
CAS 126-92-1	1 ≤ x < 3	Eye Dam. 1 H318, Skin Irrit. 2 H315
EC 204-812-8		

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INDEX -		
REACH Reg. 01-2119971586-23-		
POTASSIUM HYDROXIDE		
CAS 1310-58-3	1 ≤ x < 2	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318
EC 215-181-3		Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eye Dam. 1 H318: ≥
INDEX 019-002-00-8		2%, Eye Irrit. 2 H319: ≥ 0,5% LD50 Oral: 333
REACH Reg. 01-2119487136-33- xxxx		
TRETASODIC N,N- BIS(CARBOXYLATOMETHYL)-L- GLUTAMATE CAS 51981-21-6	1≤x< 3	
EC 257-573-7		
INDEX -		
REACH Reg. 01-2119493601-38		
d-Limonene		
CAS 5989-27-5	0 ≤ x < 0,25	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410 M=1
EC 227-813-5		
INDEX 601-029-00-7		
REACH Reg. 01-2119529223-47		
Orange Sweet Brasil Oil		
CAS 8028-48-6	0 ≤ x < 0,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 232-433-8		
INDEX -		
REACH Reg. 01-2119493353-35- 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 Choose the most appropriate extinguishing equipment for the specific case. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE The product is neither flammable nor combustible.

5.3. Advice for firefighters

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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.

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

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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): 12

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

DEU

DEU

370

370

100

100

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	OELEU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2009/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

3-BUTOXY-2-PROPANOL

AGW

MAK

		Predict	ted	no-ef	fect	concent	tration	-	PN	1E	C
--	--	---------	-----	-------	------	---------	---------	---	----	----	---

Fredicted no-enect concentrat								
Normal value in fresh water					mç	g/l		
Normal value in marine water				0,0525	mį	g/l		
Normal value for fresh water s	ediment			2,36	mç	g/kg		
Normal value for marine water sediment					mį	g/kg		
Normal value for water, interm	ittent release			5,25	mç	g/l		
Normal value of STP microorg	anisms			10	mç	g/l		
Normal value for the terrestrial	l compartment			0,16	mį	g/kg		
Health - Derived no-effect	t level - DNEL / I 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				8,75 mg/kg bw/d				*
Inhalation				33,8 mg/m3				270,5 mg/m3
Skin				16 mg/kg bw/d				44 mg/kg bw/d
1-METHOXY-2-PROPANO	OL							
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			

740

740

200

200

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VLA	ESP	375	100	568	150	SKIN		
VLEP	FRA	188	50	375	100	SKIN		
VLEP	ITA	375	100	568	150	SKIN		
VLE	PRT	375	100	568	150	ORIN		
WEL	GBR	375	100	560	150	SKIN		
	EU							
OEL	EU	375	100	568	150	SKIN		
TLV-ACGIH		184	50	368	100			
Health - Derived no-effect	t 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			VND	3,3 mg/kg		Systemic		Systemic
Inhalation			VND	bw/d 43,9 mg/m3	553,5 mg/m3	VND		369 mg/m3
Skin			VND	18,1 mg/kg bw/d		VND		50,6 mg/kg bw/d
2-BUTOXYETHANOL								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks /		
	,	mg/m3	nnm		nnm	Observatio	ns	
AGW	DEU	49	ppm 10	mg/m3	20 (C)	SKIN		
				98 (C)	20 (C)		18	
MAK VLA	DEU ESP	49 98	10 20	98 245	20 50	SKIN SKIN	Hinweis	
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	2.0		0.011		
redicted no-effect concentratio	n - PNEC		20					
Normal value in fresh water				8,8	mg	//		
					-			
Normal value in marine water	dim ont			0,88	mg			
Normal value for fresh water se				34,6		/kg		
Normal value for marine water				3,46	-	ı/kg		
eference value for water, inter				9,1	mg			
Normal value of STP microorga				463	mg			
Normal value for the food chair		ng)		20		/kg		
Normal value for the terrestrial				2,33	mg	/kg		
Salute - Livello derivato d	li non effetto - DN Effects on consumers	IEL / DMEL			Effects on workers			
coute of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Dral		26,7 mg/kg		systemic 6,3 mg/kg		systemic		systemic
		bw/d		bw/d 59 mg/m3	246 mg/m3	1091 mg/m3		98 mg/m3
nhalation	147 mg/m3	426 mg/m3		59 mg/m5	240 mg/m3	10311119/113		

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redicted no-effect concentrat								
lormal value in fresh water				0,1357	mg	µ/I		
Normal value in marine water				0,01357	mg	1/1		
Normal value for fresh water s	ediment			1,5	mg	ı/kg		
Normal value for marine water	sediment			0,15	mç	ı/kg		
Normal value for water, interm		4,83	mç	J/I				
Normal value of STP microorg	anisms			1,35	mç	J/I		
Normal value for the terrestria	l compartment			0,22	mg	ı/kg		
Health - Derived no-effec	t level - DNEL / Effects on	DMEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral				systemic 24 mg/kg bw/d		systemic		systemic
Inhalation				85 mg/m3				285 mg/m3
Skin				2440 mg/kg bw/d				4060 mg/kg bw/d
POTASSIUM HYDROXID	E							
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	1		4		RESP		
VLEP	FRA			2				
WEL	GBR			2				
TLV-ACGIH				2 (C)				
Health - Derived no-effec	t level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Inhalation			1 mg/m3	systemic		systemic	1 mg/m3	systemic
TRETASODIC N,N-BIS(CA Predicted no-effect concentrat Normal value in fresh water		THYL)-L-GLUTA	MATE	2	mç	j/l		
Normal value in marine water				0,2	mg	ı/l		
Normal value for water, interm	ittent release			1	mg	ı/I		
Normal value of STP microorg	anisms			41,2	mg	ı/l		
Normal value for the food chai		ing)		67	mg	ı/kg		
Health - Derived no-effect	t level - DNEL / I Effects on consumers	DMEL			Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
				1,5 mg/kg/d				7.0
Oral					55 mg/m3	55 mg/m3		7,3 mg/m3
Oral				1,8 mg/m3	66g,6			18065
Route of exposure Oral Inhalation Skin			VND	1,8 mg/m3 7500 mg/kg/d			VND	15000 mg/kg/d

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Predicted no-effect concent	tration - PNEC							
Normal value in fresh water	r			5,4	mg	/I		
Normal value in marine wat	ter			0,54	mg	/I		
Normal value for fresh wate	er sediment			1,32	mg	/kg		
Normal value for marine wa	ater sediment			0,13	mg	/kg		
Normal value of STP micro	organisms			1,8	mg/l			
Normal value for the food chain (secondary poisoning)				3,33	mg/kg			
Normal value for the terrest	trial compartment			0,262	mg	/kg		
Health - Derived no-eff	fect level - DNEL / D	MEL						
	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			VND	4,76 mg/kg bw/d				
Inhalation			VND	8,33 mg/m3			VND	33,3 mg/m3
Skin	111 mg/cm2	VND			222 mg/cm2	VND		

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.

EYE PROTECTION

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

If there is a risk of splashing or splashing in connection with the work carried out, adequate protection of the mucous membranes (mouth, nose, eyes) should be provided to prevent accidental absorption.

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

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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.

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	light blue	
Odour	characteristic	
Melting point / freezing point	Not applicable	
Initial boiling point	Not available	
Flammability	incombustible	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 60 °C	
Auto-ignition temperature	Not available	
pH	12	
Kinematic viscosity	Not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	0,995 kg/l	
Relative vapour density	Not available	
Particle characteristics	Not applicable	
9.2. Other information		
9.2.1. Information with regard to physical I	hazard classes	
Information not available		
9.2.2. Other safety characteristics		
VOC (Directive 2010/75/EU)	22,61 % - 225,00 g/li	tre
Explosive properties	Not explosive	
Oxidising properties	Not oxidizing	
SECTION 10. Stability and re	activity	

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid exposure to: heat sources. Keep separate from: oxidizing agents, acids, flammable substances, halogens, organic substances.Keep away from: lead, aluminum, copper, tin, sulfur, bronze. It absorbs atmospheric CO2. Unstable when exposed to air. Freezing.

10.5. Incompatible materials

1-METHOXY-2-PROPANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

2-BUTOXYETHANOL

May develop: hydrogen.

POTASSIUM HYDROXIDE

May develop: flammable gases.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

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

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Delayed and immediate effects as well as chronic effects f	from short and long-term exposure	
1-METHOXY-2-PROPANOL The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.		
Interactive effects		
Information not available		
ACUTE TOXICITY		
ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	> 20 mg/l >2000 mg/kg Not classified (no significant component)	
Isotridecanol, ethoxylated (>5-20EO) LD50 (Oral):	> 5000 mg/kg	
3-BUTOXY-2-PROPANOL		
LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Rat 3300 mg/kg Rat	
1-METHOXY-2-PROPANOL		
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 2000 mg/kg Rabbit 4016 mg/kg Ratto > 7000 mg/l/4h Ratto	
Aliphatic alcohol ethoxylate 7 moles LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg coniglio > 300 mg/kg ratto	
2-BUTOXYETHANOL		
LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours):	> 2000 mg/kg Porcellino d'India (OECD - linea gu > 1200 mg/kg Guinea pig 3 mg/l/4h Rat	uida 402)
OLEIC ACID		
LD50 (Oral):	> 2000 mg/kg ratto	

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Sodium etasulphate LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders): POTASSIUM HYDROXIDE	 > 2000 mg/kg Ratto maschile, femminile 2840 mg/kg Ratto maschile, femminile > 5 mg/l/4h Topo maschile, femminile
LD50 (Oral):	333 mg/kg Rat
TRETASODIC N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTA	MATE
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders):	> 2000 mg/kg OECD 402 > 2000 mg/kg ratto > 4,2 mg/l/4h OECD 403
d-Limonene LD50 (Dermal): LD50 (Oral):	> 5000 mg/kg Coniglio > 2000 mg/kg Metodo OECD 423 - Ratto (femmina)
SKIN CORROSION / IRRITATION	
Corrosive for the skin	
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye damage	
RESPIRATORY OR SKIN SENSITISATION	
May produce an allergic reaction Contains: d-Limonene Sweet Brasil oil with orange	
Respiratory sensitization	
Information not available	
Skin sensitization	
Information not available	
GERM CELL MUTAGENICITY	

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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

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

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STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. 12.1. Toxicity

1-METHOXY-2-PROPANOL

The product is probably not 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.

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.

2-BUTOXYETHANOLLC50 - for Fish1474 mg/l/96h oncorhynchus mykissEC50 - for Crustacea1550 mg/l/48h daphnia magnaEC50 - for Algae / Aquatic Plants1840 mg/l/72h pseudokirchneriella subcapitataChronic NOEC for Fish> 100 mg/l brachydanio rerioChronic NOEC for Crustacea100 mg/l daphnia magna

1-METHOXY-2-PROPANOL

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LC50 - for Fish	> 6800 mg/l/96h leuciscus idus
EC50 - for Crustacea	23300 mg/l/48h daphnia magna
d-Limonene	
LC50 - for Fish	> 0,72 mg/l/96h
EC50 - for Crustacea	0,85 mg/l/424h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,32 mg/l/72h Pseudokirchneriella subcapitata
Allehadia alarikata di sustata 🛪 sasta	
Aliphatic alcohol ethoxylate 7 moles	5 ///001
LC50 - for Fish	5 mg/l/96h
EC50 - for Crustacea	5 mg/l/48h
EC50 - for Algae / Aquatic Plants	5 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	10 mg/kg Metodo OECD 208
Isotridecanol, ethoxylated (>5-20EO)	
EC50 - for Crustacea	5 mg/l/48h
EC50 - for Algae / Aquatic Plants	5 mg/l/72h
EC10 for Algae / Aquatic Plants	2500 mg17h
Sodium etasulphate	
LC50 - for Fish	> 100 mg/l/96h
EC50 - for Crustacea	483 mg/l/48h Dafnia
EC50 - for Algae / Aquatic Plants	> 511 mg/l/72h Allghe
Chronic NOEC for Fish	> 1357 mg/l 42 giorni Flow-through
Chronic NOEC for Crustacea	1,4 mg/l 21 giorni Semi-staic Dafnia
TRETASODIC N,N- BIS(CARBOXYLATOMETHYL)-L- GLUTAMATE LC50 - for Fish	> 100 mg/l/96h oncorhynchus mykiss
EC50 - for Crustacea	> 100 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h demsodemsus supspicatus, OECD 201
Chronic NOEC for Algae / Aquatic Plants	> 100 mg/l OECD 201
с .	
12.2. Persistence and degradability	
(OECD 301E/92/96/EEC, C 4-B) (aerobic, municipal	easily biodegradable (according to OECD criteria). Disposal considerations: 90-100% (28 days) water treatment plant effluent). In water, hydrolytic stability was not determined but rapid OECD 301E test. Atmospheric vapour rapidly photodegraded (half-life <1 day)
POTASSIUM HYDROXIDE	
Solubility in water	> 10000 mg/l
Degradability: information not available	
3-BUTOXY-2-PROPANOL	
Solubility in water	52000 mg/l
Condenty III water	ozooo mgn

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		· · · ·
Rapidly degradable		
2-BUTOXYETHANOL		
Solubility in water		1000 - 10000 mg/l
Rapidly degradable		
1-METHOXY-2-PROPANOL		
Solubility in water		1000 - 10000 mg/l
Rapidly degradable		
d-Limonene		
Rapidly degradable		
Aliphatic alcohol ethoxylate 7 moles		
Rapidly degradable		
Isotridecanol, ethoxylated (>5-20EO)		
Rapidly degradable		
Sodium etasulphate		
Rapidly degradable		
TRETASODIC BIS(CARBOXYLATOMETHYL)-L- GLUTAMATE Rapidly degradable	N,N-	
12.3. Bioaccumulative potential		
3-BUTOXY-2-PROPANOL		
Partition coefficient: n-octanol/water		1,2
2-BUTOXYETHANOL		
Partition coefficient: n-octanol/water		0,81
BCF		3,16 (calculated QSAR value). This substance is not expected to bioaccumulate
1-METHOXY-2-PROPANOL		
Partition coefficient: n-octanol/water		< 1
Sodium etasulphate		
BCF		< 73
12.4. Mobility in soil		

2-BUTOXYETHANOL Transport evaluation between environmental departments (supplier): the substance does not evaporate into the atmosphere from the water surface. Absorption at solid phase of soil is not predictable. Scientifically unjustified study. Stability in water: Immediate hydrolysis is not expected; it does not contain functional groups for which it is believed that they can be hydrolysed in water. Stability in soil: low absorption in soil particles expected.

12.5. Results of PBT and vPvB assessment

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On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq 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

12.7. Other adverse enects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

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

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

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14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

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

Substances subject to the Rotterdam Convention:

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

 Product
 3 - 40

 Contained substance
 Point

 Point
 75

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

 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

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None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been prepared for the following substances in the mixture: 1-methoxy 2-propanol, potassium idoxide, 2-butoxyethanol, 3-butoxy-2-propanol, d-limonene

SECTION 16. Other information

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

I		
	Flam. Liq. 3	Flammable liquid, category 3
	Met. Corr. 1	Substance or mixture corrosive to metals, category 1
	Acute Tox. 3 Acute Tox. 4 Asp. Tox. 1	Acute toxicity, category 3 Acute toxicity, category 4 Aspiration hazard, category 1
	Skin Corr. 1A	Skin corrosion, category 1A
	Eye Dam. 1	Serious eye damage, category 1
	Skin Sens. 1	Skin sensitization, category 1
	STOT SE 3	Specific target organ toxicity - single exposure, category 3
	Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
	Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
	H226	Flammable liquid and vapour.
	H290	May be corrosive to metals.
	H331	Harmful if inhaled.
	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H314	Causes severe skin burns and eye damage.
	H318	Causes serious eye damage.
	H317	May cause an allergic skin reaction.
	H336	May cause drowsiness or dizziness.
	H410	Very toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.
1		

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)

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- 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%
- 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
- EmS: Emergency Schedule - GHS: Globally Harmonized System of classification and labeling of chemicals - IATA DGR: International Air Transport Association Dangerous Goods Regulation
- 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).
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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 / 11 / 16.