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DET & RINSE PLUS Safety Data Sheet According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier DB1015A0 - DB1014A0 - DB1041A0 Code: Product name DET & RINSE PLUS UFI: P500-Y034-J00S-YGF6 1.2. Relevant identified uses of the substance or mixture and uses advised against Oven cleaner (EUPCS: PC-CLN-10.4). Intended use Identified Uses Professional Industrial Consume Transfer to a container through a dedicated line ERC: 8a. (bottle/machine) PROC: 8b. PC: 35. LCS: PW. Uses Advised Against Any use other than those identified. 1.3. Details of the supplier of the safety data sheet UNOX S.P.A. Name Full address Via Maiorana. 22 District and Country 35010 Cadoneghe (PD) Italia tel. +39 049 86.57.511 fax +39 049 86.57.555 e-mail address of the competent person responsible for the Safety Data Sheet Det.Rinse@unox.com 1.4. Emergency telephone number For urgent inquiries refer to Verisk-3E Tel (+)1-760-476-3961 Tel (+)0-800-680-0425 (UK) Access code: 334577 Hours: 24/7

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:	
Substance or mixture corrosive to metals, category 1	H290
Skin corrosion, category 1A	H314
Serious eye damage, category 1	H318

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.



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2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

Precautionary statements:

P264 P280 P301+P330+P331 P303+P361+P353 P305+P351+P338 P310	Wash hands thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.
Contains:	POTASSIUM HYDROXIDE D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE
ngredients according to Re	gulation (EC) No. 648/2004
Less than 5% 5% or over but less than 15%	phosphonates, anionic surfactants, amphoteric surfactants non-ionic surfactants
2.3. Other hazards	
On the basis of available da	ta, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.
The product does not conta	in substances with endocrine disrupting properties in concentration $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

	s: fication \SSIUM HYDROXIDE	x = Conc. %	Classification (EC) 1272/2008 (CLP)
EC 2	1310-58-3 215-181-3 ≥ 0.5%	5 ≤ x < 15	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318 Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eye Dam. 1 H318: ≥ 2%, Eye Irrit. 2
INDE	≃ 0,3% X 019-002-00-8 XH Reg. 01-2119487136-33-3	xxxx	LD50 Oral: 333 mg/kg

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GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

CAS 68515-73-1 $5 \le x < 15$ Eye Dam. 1 H318 EC 500-220-1 INDEX . REACH Reg. 01-2119488530-36-XXXX

DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS 34590-94-8 $5 \le x < 15$ EC 252-104-2 INDEX -REACH Reg. 01-2119450011-60-XXXX

Substance with a community workplace exposure limit.

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE

CAS 51981-21-6 Met. Corr. 1 H290 $1 \le x \le 4$ EC 257-573-7 INDEX -REACH Reg. 01-2119493604-38-XXXX

ALKYL ETHER CARBOXYLIC ACID

CAS 53563-70-5 $1 \leq x < 4$ Eye Dam. 1 H318, Skin Irrit. 2 H315 FC INDEX -REACH Reg.

ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLATES (> 2.5 EO)

CAS 68439-51-0 1 ≤ x < 4 Aquatic Chronic 3 H412 EC 931-986-9 INDEX -REACH Reg.

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

ALKYL ETHER CARBOXYLIC ACID Exempted: Polymer. See Article 2 (9) of Regulation (EC) No. 1907/2006.

ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLATES (> 2.5 EO) * Exempted: polymer. See Article 2 (9) of Regulation (EC) no. 1907/2006.

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. The vapors and/or powders are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

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

Keep the safety data sheet of the preparation or, failing that, the label available for the medical personnel.



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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Use the product exclusively in combination with the automatic aspiration and dilution system of the product supplied with the UNOX ovens. Frequency of use: up to 5 days / week. Duration of use: up to 10 minutes / day

7.2. Conditions for safe storage, including any incompatibilities

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The product is alkaline and may generate hydrogen gas if it comes in contact with metals such as aluminium, zinc and tin. The hydrogen gas developed may cause combustion when the product is transferred to a metal container made from one of the metals indicated above, or which has been in contact with the same for an extended period of time. If the hydrogen gas develops in a closed space, there may be a risk of explosion.

Store at a temperature between 5 ° C and 40 ° C.

Storage class TRGS 510 (Germany): 8A

7.3. Specific end use(s)

Follow the instructions on the product labeled or on the information sheet. Refer to the safe use information if enclosed with this safety data sheet.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstöffe, 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
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α ⁺ 6.3.2020) Ετισμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιώνους παράφονητες κατά την εφανασία''»
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu,
		graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
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
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 3905, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
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) 2019/83; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 39/24/EC; Directive 30/24/EC; Directive 30/24/EC; Directive 30/24/EC; Directive 30/24/EC; Directive 39/24/EC; Directive 30/24/EC; Directiv
	TLV-ACGIH	ACGIH 2021

POTASSIUM HYDROXIDE

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	2					
VLA	ESP			2			
VLEP	FRA			2			
TLV	GRC	2		2			

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		U		DE PLUS						
GVI/KGVI	HRV			2						
WEL	GBR			2						
TLV-ACGIH				2 (C)						
Health - Derived no-effe	ect level - DNFL /	DMEL		- (-)						
	Effects on consumers				Effects on workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic		
Inhalation			1 mg/m3	VND		systemic	1 mg/m3	VND		
D-GLUCOPYRANOSE, Predicted no-effect concentry		10 GLUCOSIDE								
Normal value in fresh water				0,1	mg	/1				
Normal value in marine wate	۲			0,01	mga	/1				
Normal value for fresh water	sediment			0,487	mga	/kg				
Normal value for marine wat	er sediment			0,048	mg	/kg				
Normal value for water, inter	mittent release			0,27	mga	/1				
Normal value of STP microo	rganisms			560	mg	/1				
Normal value for the terrestri	ial compartment			0,654	mg	/kg				
Health - Derived no-effe	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			37,5 mg/kg/d	VND		systemic		systemic		
Inhalation			VND	420 mg/m3						
Skin			VND	357000			VND	595000 mg/kg/d		
				mg/kg/d				ilig/kg/u		
DIPROPYLENE GLYCO		. ETHER		mg/kg/d				ilig/kg/d		
DIPROPYLENE GLYCO Threshold Limit Value		ETHER		mg/kg/d STEL/15min		Remar	ks /	nigrigra		
DIPROPYLENE GLYCO	L MONOMETHYL	TWA/8h	ppm	STEL/15min	ppm	Remar Observ				
DIPROPYLENE GLYCO Threshold Limit Value Type	Country	TWA/8h mg/m3	ppm		ppm	Obsen		ing/kg/d		
DIPROPYLENE GLYCO Threshold Limit Value Type	Country BGR	TWA/8h mg/m3 308	50	STEL/15min mg/m3						
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW	Country BGR DEU	TWA/8h mg/m3 308 310	50 50	STEL/15min mg/m3 310	50	Obsen				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK	Country BGR DEU DEU	TWA/8h mg/m3 308 310 310	50 50 50	STEL/15min mg/m3		Obsen SKIN				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK VLA	Country BGR DEU DEU ESP	TWA/8h mg/m3 308 310 310 308	50 50 50 50	STEL/15min mg/m3 310	50	Obsen				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK VLA VLA VLP	Country BGR DEU DEU ESP FRA	TWA/8h mg/m3 308 310 310 308 308 308	50 50 50 50 50 50	STEL/15min mg/m3 310 310	50 50	Obsern SKIN SKIN				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK VLA VLA VLP TLV	Country BGR DEU DEU ESP FRA GRC	TWA/8h mg/m3 308 310 310 308 308 308 600	50 50 50 50 50 50 100	STEL/15min mg/m3 310	50	Obsern SKIN SKIN				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK VLA VLA VLEP TLV GVI/KGVI	Country BGR DEU DEU ESP FRA	TWA/8h mg/m3 308 310 310 308 308 308	50 50 50 50 50 50	STEL/15min mg/m3 310 310	50 50	Obsern SKIN SKIN				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK VLA VLA VLEP TLV GVI/KGVI VLEP	Country BGR DEU DEU ESP FRA GRC HRV ITA	TWA/8h mg/m3 308 310 310 308 308 600 308 308 308 308	50 50 50 50 50 50 100 50 50	STEL/15min mg/m3 310 310	50 50	Obsen SKIN SKIN SKIN SKIN				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK VLA VLA VLEP TLV GVI/KGVI VLEP VLE	Country BGR DEU DEU ESP FRA GRC HRV	TWA/8h mg/m3 308 310 310 308 308 600 308 308 308 308 308 308	50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50	STEL/15min mg/m3 310 310 900	50 50	Obsen SKIN SKIN SKIN				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK VLA VLA VLEP TLV GVI/KGVI VLEP VLE NDS/NDSCh	Country BGR DEU DEU ESP FRA GRC HRV ITA PRT POL	TWA/8h mg/m3 308 310 310 308 308 600 308 308 308 308 308 308 240	50 50 50 50 50 50 50 50 50 50 50 50 50 50	STEL/15min mg/m3 310 310	50 50	Obser SKIN SKIN SKIN SKIN SKIN				
DIPROPYLENE GLYCO Threshold Limit Value Type TLV AGW MAK VLA VLA VLEP TLV GVI/KGVI VLEP VLE NDS/NDSCh TLV	Country BGR DEU DEU ESP FRA GRC HRV ITA PRT	TWA/8h mg/m3 308 310 310 308 308 600 308 308 308 308 308 308	50 50 50 50 50 50 100 50 50	STEL/15min mg/m3 310 310 900	50 50	Obsen SKIN SKIN SKIN SKIN				
DIPROPYLENE GLYCO Threshold Limit Value	Country BGR DEU DEU ESP FRA GRC HRV ITA PRT POL ROU	TWA/8h mg/m3 308 310 310 308 308 308 600 308 308 308 308 308 308 308 308 308	50 50 50 50 50 50 50 50 50 50	STEL/15min mg/m3 310 310 900	50 50	Observer SKIN SKIN SKIN SKIN SKIN SKIN				

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TLV-ACGIH 606 100 909 (C)



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Predicted no-effect concentration - PNEC			
Normal value in fresh water	19	mg/l	
Normal value in marine water	1,9	mg/l	
Normal value for fresh water sediment	70,2	mg/kg	
Normal value for marine water sediment	7,02	mg/kg	
Normal value for water, intermittent release	190	mg/l	
Normal value of STP microorganisms	4168	mgl	
Normal value for the terrestrial compartment	2,74	mg/kg	

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Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			VND	37,2 mg/m3			VND	310 mg/m3
Skin			VND	15 mg/kg/d			VND	65 mg/kg/d

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMAT Predicted no-effect concentration - PNEC	E		
Normal value in fresh water	2	mg/l	
Normal value in marine water	0,2	mg/l	
Normal value for water, intermittent release	1	mg/l	
Normal value of STP microorganisms	41,2	mg/l	
Normal value for the food chain (secondary poisoning)	67	mg/kg	

Health - Derived no-effect level - DNEL / DMEL

	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral				1,5 mg/kg				
				bw/d				
Inhalation				1,8 mg/m3	55 mg/m3	55 mg/m3		7,3 mg/m3
Skin				7500 mg/kg				15000 mg/kg
				bw/d				bw/d

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

The use of appropriate technical measures should always take priority over personal protection equipment. Provide a good level of general ventilation in the workplace (3 to 5 air changes per hour). The individual protection devices must bear the CE marking that certifies their compliance with the regulations in force.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect your hands with category III work gloves (ref. Standard EN 374). For the final choice of material for work gloves, the following must be considered: compatibility, degradation, breakage time and permeation. Gloves have a wear time that depends on the duration and mode of use. Suitable gloves (protection factor 6, permeation time> 480 minutes): material (thickness, mm): nitril rubber (0.35 mm), polychloroprene (0,5 mm).

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

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and water after removing protective clothing.

EYE PROTECTION

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

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	straw yellow	
Odour Odour threshold	characteristic of solvent not applicable	Method:organoleptic Reason for missing data:Not applicable to mixtures.
Melting point / freezing point Initial boiling point	not determined > 100 °C	Reason for missing data:no test available
Flammability	not applicable (liquid product).	
Lower explosive limit	not applicable	Reason for missing data:The product is not explosive.
Upper explosive limit	not applicable	Reason for missing data:The product is not explosive.
Flash point	> 100 °C	
Auto-ignition temperature	270 °C	Substance:DIPROPYLENE GLYCOL MONOMETHYL ETHER
Decomposition temperature pH	not available 14	Reason for missing data:no test available Method:pH meter Concentration: 100 %
Kinematic viscosity	not available	Method:R1; 200 rpm Reason for missing data:Property not relevant for the purposes of hazard.
Dynamic viscosity	1-50 mPa.s	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not applicable	Reason for missing data:Not applicable to mixtures.
Vapour pressure	0,07 kPa	Substance:DIPROPYLENE GLYCOL MONOMETHYL ETHER
Density and/or relative density	1,10-1,25	
Relative vapour density	>1	Substance:DIPROPYLENE GLYCOL MONOMETHYL ETHER
Particle characteristics	not applicable	

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9.2. Other information							
No other information available.			the criteria specified in the applicat				
9.2.1. Information with regard to physica	al hazard classes		offects of exposure to the product.	o account the concentration of the individual hazardous substances indica	ted in section 3, to evaluate the toxicological		
Information not available			11.1. Information on hazard class	11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
9.2.2. Other safety characteristics			Metabolism, toxicokinetics, mechanism of action and other information Information not available				
Evaporation rate not determined Reason for missing data:no test available VOC (Directive 2010/75/EU) 5,50 %			Information on likely routes of exposure Dermal. Inhalation is not a significant source of exposure under intended conditions of use. It can only occur in unforeseen conditions of use when				
VOC (volatile carbon)	3,12 %		aerosols and / or droplets are form	ed.			
Explosive properties Oxidising properties	not applicable. None of the substances contained has functional groups associated with explosive properties. not applicable. None of the contained substances has functional groups associated with oxidizing properties.		This product is corrosive and caus Upon contact with eyes, it may cc caustic for the respiratory system a include: sting, cough, asthma, la	Delayed and immediate effects as well as chronic effects from short and long-term exposure This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as comea opacity, iris lesions, irreversible eye coloration. The vapors and/or powders are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, larnygitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.			
SECTION 10. Stability and	reactivity		Interactive effects				
10.1. Reactivity			No interactive effects are known fo	No interactive effects are known for the product and the substances it contains.			
There are no particular risks of reaction with other substances in normal conditions of use.			ACUTE TOXICITY ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	Not classified (no significant component) >2000 mg/kg Not classified (no significant component)			
10.2. Chemical stability				Not classified (no significant component)			
The product is stable in normal conditions	of use and storage.		POTASSIUM HYDROXIDE	POTASSIUM HYDROXIDE			
10.3. Possibility of hazardous reactions	5		LD50 (Oral):	333 mg/kg rat (OECD method 425 - Bruce F 100).	R.D., Fund. Apll. Toxicol., 8, 97-		
Reacts violently with: strong acids.Deve peroxides.	lops hydrogen on contact with: aluminium alloys,copper alloys,zinc	alloys,light metals.Reacts violently with:	D-GLUCOPYRANOSE, OLIGOME	D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE			
10.4. Conditions to avoid			LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Coniglio, equivalente o simile > 2000 mg/kg Ratto - OECD linea guida 423			
Avoid contact with: strong acids,oxidising	agents,light metals,copper alloys,zinc alloys,aluminium alloys.		DIPROPYLENE GLYCOL MONOM	DIPROPYLENE GLYCOL MONOMETHYL ETHER			
10.5. Incompatible materials			LD50 (Dermal): LD50 (Oral):	9500 mg/kg rabbit 5660 mg/kg rat			
Corrodes: aluminium, aluminium alloys, copper, copper alloys, zinc, zinc alloys.			TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE				
Compatible materials: polyethylene,polypropylene,PVC.			LD50 (Dermal):				
Incompatible materials: aluminium.aluminium alloys,copper,copper alloys,zinc,zinc alloys.			LD50 (Oral): LC50 (Inhalation vapours):	> 2000 mg/kg rat (EC B.1). > 4,2 mg/l/4h rat (OECD 403).			
Avoid contact with acids.			ALKYL ETHER CARBOXYLIC ACI	ALKYL ETHER CARBOXYLIC ACID			
10.6. Hazardous decomposition produce If exposed to a fire, for thermal decomposed	cts ition, leads to the formation of: carbon oxides, nitrogen oxides, sulfur o	xides.	LD50 (Oral):	> 2000 mg/kg rat			
SECTION 11. Toxicological information			ALCOHOLS, C12-14 ETHOXYLAT	ES / PROPOXYLATES (> 2.5 EO)			

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	DET & RINSE PLUS			DET & RINSE PLUS		
LD50 (Oral):	> 2000 mg/kg			TETRASODIUM N,N-BIS(CARBOXYM		
SKIN CORROSION / IRRITATION Corrosive for the skin			I	Not sensitizing (OECD method 406).		
Classification according to the experim	ental Ph value			ALKYL ETHER CARBOXYLIC ACID t is not a sensitizer (supplier data).		
POTASSIUM HYDROXIDE Corrosive (OECD method 431 - Perkin	s M.A. et al., Fund. Appl. Toxicol., 31, 9-18).		<u> </u>	Respiratory sensitization nformation not available		
DIPROPYLENE GLYCOL MONOMET Not irritating (rabbit, OECD method 40-				Skin sensitization nformation not available		
TETRASODIUM N,N-BIS(CARBOXYM Not irritating (OECD method 404).	IETHYL)-L-GLUTAMATE			GERM CELL MUTAGENICITY Does not meet the classification criteria	a for this hazard class	
ALKYL ETHER CARBOXYLIC ACID Causes skin irritation (supplier's data).				POTASSIUM HYDROXIDE Ames test: negative (Fujita H et al, K expected to be sistematically present in	enkyu Nenpo-Tokyo-Toritsu Eisei Kenkyusho, 43, 219-227). No (n the body during usual manipulation and use conditions. For this rea	penotoxic effect known. The substance is not son further studies are not required.
SERIOUS EYE DAMAGE / IRRITATIO Causes serious eye damage	N			DIPROPYLENE GLYCOL MONOMETH Gene mutation: negative (OECD metho		
POTASSIUM HYDROXIDE Corrosive (OECD method 405 - Johnso	on g.t. et al, Toxicol. Appl. Pharmacol., 32, 239-245).		1	n vitro genetic toxicity (In vitro Mamma n vivo genetic toxicity (Mammalian Ery	IETHYL)-L-GLUTAMATE rse Mutation Test, Ames test): negative (OECD method 471). alian Cell Gene Mutation Test): negative (OECD method 476). throcyte Micronucleus Test): negative (OECD method 474). alian Chromosome Aberration Test): negative (OECD method 473).	
DIPROPYLENE GLYCOL MONOMET Not irritating (J. Toxicol. Cutan. Ocul. T	HYL ETHER ioxicol.2:229-242, 1984).					
TETRASODIUM N,N-BIS(CARBOXYM Not irritating (OECD method 405).	IETHYL)-L-GLUTAMATE			ALKYL ETHER CARBOXYLIC ACID n vito experiments (bacteria): negative No mutagenic effect (Read-across)(sup		
ALKYL ETHER CARBOXYLIC ACID Serious eye damages (supplier's data)			Ī	CARCINOGENICITY Does not meet the classification criteria	a for this hazard class	
RESPIRATORY OR SKIN SENSITISA Does not meet the classification criteria			-	POTASSIUM HYDROXIDE The substance is not expected to be si not required.	istematically present in the body during usual manipulation and use	conditions. For this reason further studies are
POTASSIUM HYDROXIDE 0,1% sodium hydroxide solutions hav corrosive further studies are not require	e no sensitizin effects (Johnson G.T. et al, Toxicol. Appl. Pharmaco ed.	I., 32, 239-245). As potassium hydroxide is	1	DIPROPYLENE GLYCOL MONOMETH No carcinogenic effect rvealed (OECD FETRASODIUM N,N-BIS(CARBOXYM No adverse effect observed.	method 453).	
DIPROPYLENE GLYCOL MONOMET	HYL ETHER			ALKYL ETHER CARBOXYLIC ACID No carcinogenic effect known (supplier	data).	

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REPRODUCTIVE TOXICITY Does not meet the classification criteria for this hazard class

POTASSIUM HYDROXIDE No adverse effect for reproduction known. The substance is not expected to be sistematically present in the body during usual manipulation and use conditions. For this reason further studies are not required.

DIPROPYLENE GLYCOL MONOMETHYL ETHER Two-generation reproductivity test (OECD method 416): NOAEL F1 = 300 ppm (inhalation) NOAEL F2 = 1000 ppm (inhalation)

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE No adverse effect on fertility and development observed.

ALKYL ETHER CARBOXYLIC ACID No toxic effect for reproduction known (supplier data).

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER On the basis of avialable data classification criteria are not met.

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Conclusive but not sufficient for classification.

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 DIPROPYLENE GLYCOL MONOMETHYL ETHER On the basis of avialable data classification criteria are not met. TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Conclusive but not sufficient for classification. Target organs Information not available Route of exposure Information not available ASPIRATION HAZARD Does not meet the classification criteria for this hazard class DIPROPYLENE GLYCOL MONOMETHYL ETHER On the basis of avialable data classification criteria are not met. TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Not applicable. 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** Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. 12.1. Toxicity POTASSIUM HYDROXIDE Danger for environment is given by hydroxyl ion (pH effect). For this reason, the effects on organisms depends on the buffering capacity of the aguatic or terrestrial ecosystem. The high water solubility and the low vapour pressure indicates that the products is mainly present in the aquatic compartment. Toxic effects on aquatic organisms are mainly due to the pH POTASSIUM HYDROXIDE 80 mg/l/96h Gambusia affinis LC50 - for Fish DIPROPYLENE GLYCOL MONOMETHYL ETHER LC50 - for Fish > 10000 mg/l/96h Pesce EC50 - for Crustacea 1919 mg/l/48h Daphnia magna

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EC50 - for Algae / Aquatic Plants		> 969 mg/l/72h Alga	
TETRASODIUM N,N-BIS(CARBOXY LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	METHYL)-L-GLUTAMA	TE > 100 mg/l/96h Rainbow trout > 100 mg/l/48h Daphnia magna > 100 mg/l/72h	
D-GLUCOPYRANOSE, OLIGOMER LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	C8-C10 GLUCOSIDE	 > 100 mg/l/96h Brachidanio rerio > 10 mg/l/48h Daphnia magna > 10 mg/l/72h Scenedesmus subspicatus 1,8 mg/l Brachydanio rerio 1 mg/l Scenedesmus subspicatus 	
ALCOHOLS, C12-14 ETHOXYLATE: EC50 - for Crustacea EC50 - for Algae / Aquatic Plants EC10 for Algae / Aquatic Plants	S / PROPOXYLATES (>	2.5 EO) > 1 mg/l/48h Daphnia magna > 1 mg/l/72h Desmodesmus subspicatus > 0,1 mg/l/72h Desmodesmus subspicatus	
ALKYL ETHER CARBOXYLIC ACID LC50 - for Fish EC50 - for Crustacea		> 100 mg/l/96h OECD 203, Fish, Acute Toxicity > 100 mg/l/48h OECD 202, Daphnia sp. Acute Ir	
Test. EC50 - for Algae / Aquatic Plants		> 100 mg/l/72h OECD 201, Alga, Growth Inhibitio	on Test.
DIPROPYLENE GLYCOL MONOME Rapidly degradable TETRASODIUM N,N-BIS(CARBOXY Rapidly degradable		TE	
D-GLUCOPYRANOSE, OLIGOMER Rapidly degradable	C8-C10 GLUCOSIDE		
ALCOHOLS, C12-14 ETHOXYLATE Rapidly degradable	S / PROPOXYLATES (>	2.5 EO)	
ALKYL ETHER CARBOXYLIC ACID Rapidly degradable			
12.3. Bioaccumulative potential			
POTASSIUM HYDROXIDE The n-octanol/water partitioning coeffic TETRASODIUM N,N-BIS(CARBOXYM No data available indicating a potential	ETHYL)-L-GLUTAMATE		
TETRASODIUM N,N-BIS(CARBOXY Partition coefficient: n-octanol/water	METHYL)-L-GLUTAMA	TE < 0	
D-GLUCOPYRANOSE, OLIGOMER Partition coefficient: n-octanol/water	C8-C10 GLUCOSIDE	< 1,77	
12.4. Mobility in soil			



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POTASSIUM HYDROXIDE Very high. TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Very high.

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Partition coefficient: soil/water < 0 The product is completely soluble in water. High mobility in soil is expected.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No other significant adverse effects for the environment are known.

SECTION 13. Disposal considerations

 13.1. Waste treatment methods

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

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

 Waste transportation may be subject to ADR restrictions.

 CONTAMINATED PACKAGING

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

The codes suggested below refer to the product intact and not subjected to manipulation and for its packaging when disposed of empty. 16 03 05 * - organic wastes containing dangerous substances 15 01 10 * - packaging containing residues of dangerous substances or contaminated by such substances

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1814

14.2. UN proper shipping name

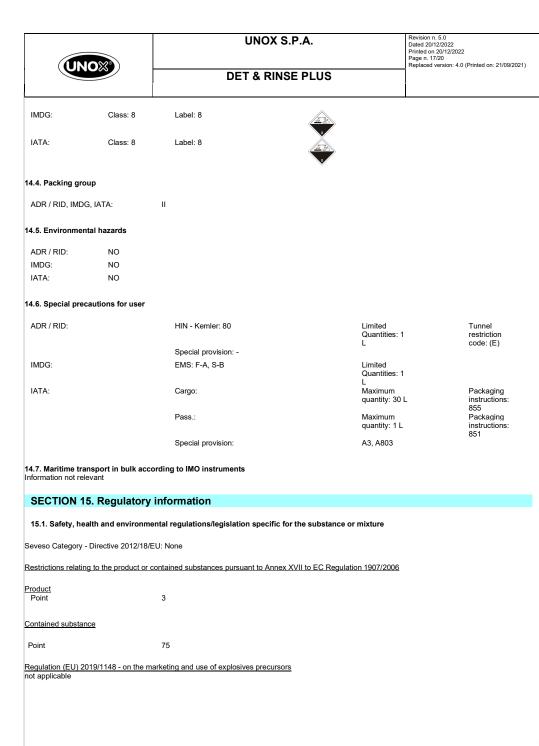
ADR / RID:	POTASSIUM HYDROXIDE SOLUTION
IMDG:	POTASSIUM HYDROXIDE SOLUTION
IATA:	POTASSIUM HYDROXIDE SOLUTION

Label: 8

14.3. Transport hazard class(es)

ADR / RID: Class: 8







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Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention: None

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.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

POTASSIUM HYDROXIDE

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

SECTION 16. Other information

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

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

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H318 H412 Use des ERC LCS PC PROC	Harmful i criptor system: 8a Wide PW Wide 35 Was	serious eye damage. to aquatic life with long lasting effects. espread use of non- reactive processing aid (no inclusion into or onto espread use by professional workers hing and cleaning products sfer of substance or mixture (charging and discharging) at dedicated		 Delegated Regulation (UE) 2021/849 The Merck Index 10th Edition Handling Chemical Safety INRS - Fiche Toxicologique (toxicologic Patty - Industrial Hygiene and Toxicologi N.I. Sax - Dangerous properties of Indu IFA GESTIS website ECHA website Database of SDS models for chemicals 	sal sheet) 3y	
- ATE: A - CAS: C - CES0: - CE: Idd - CLP: F - DNEL: - EmS: F - GNS: (- IATA D - IC50: 1 - IMDEX - IMO: Ir - IMDC - IMO: Ir - IMDC - IMO: C - PBT: F - PEC: F - PEC: F - PEC: C - REACI - REACI - REACI - RED: R - TLV: T - TLV: T - TLV: S - TWA: S - TWA: S - VOC: V - VPVB: '	European Agreement concerni cute Toxicity Estimate Toxicity Estimate Toxicity Estimate Toxicity Estimate Stephenical Service Nur Effective concentration (requi etgulation (EC) 1272/2008 Derived No Effect Level Emergency Schedule Globally Harmonized System (GR: International Air Transpo- mobilization Concentration 5 International Maritime Organizz International Maritime Organizz Identifier in Annex V1 of CLP Lethal Concentration 50% Lethal Concentration 50% Lethal dose 50% Docupational Exposure Level Predicted exposure level Predicted exposure level Predicted no effect concentra redicted exposure level Predicted no effect concentra redicted concentration that sh Time-weighted average expos STEL: Short-term exposure limiter Valatile organic Compounds	red to induce a 50% effect) hive of existing substances) of classification and labeling of chemicals of Association Dangerous Goods Regulation 50% or dangerous goods ation d toxic as REACH Regulation entration ation ation crational transport of dangerous goods by train would not be exceeded during any time of occupational exposure. sure limit nit		thoroughness of provided information ac This document must not be regarded as The use of this product is not subject to laws and regulations. The producer is rel Provide appointed staff with adequate tra CALCULATION METHODS FOR CLASS Chemical and physical hazards: Product chemical-physical properties are reported Health hazards: Product classification is	SIFICATION classification derives from criteria established by the CLP Regu	nsibility, comply with the current health and safety ulation, Annex I, Part 2. The data for evaluation of iless determined otherwise in Section 11.
1. Regul 2. Regul 3. Regul 4. Regul 5. Regul 6. Regul 7. Regul	lation (EC) 1272/2008 (CLP) c lation (EU) 2020/878 (II Anne) lation (EC) 790/2009 (I Atp. C lation (EU) 286/2011 (II Atp. C lation (EU) 618/2012 (III Atp. I lation (EU) 487/2013 (IV Atp. I					

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- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP) 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)