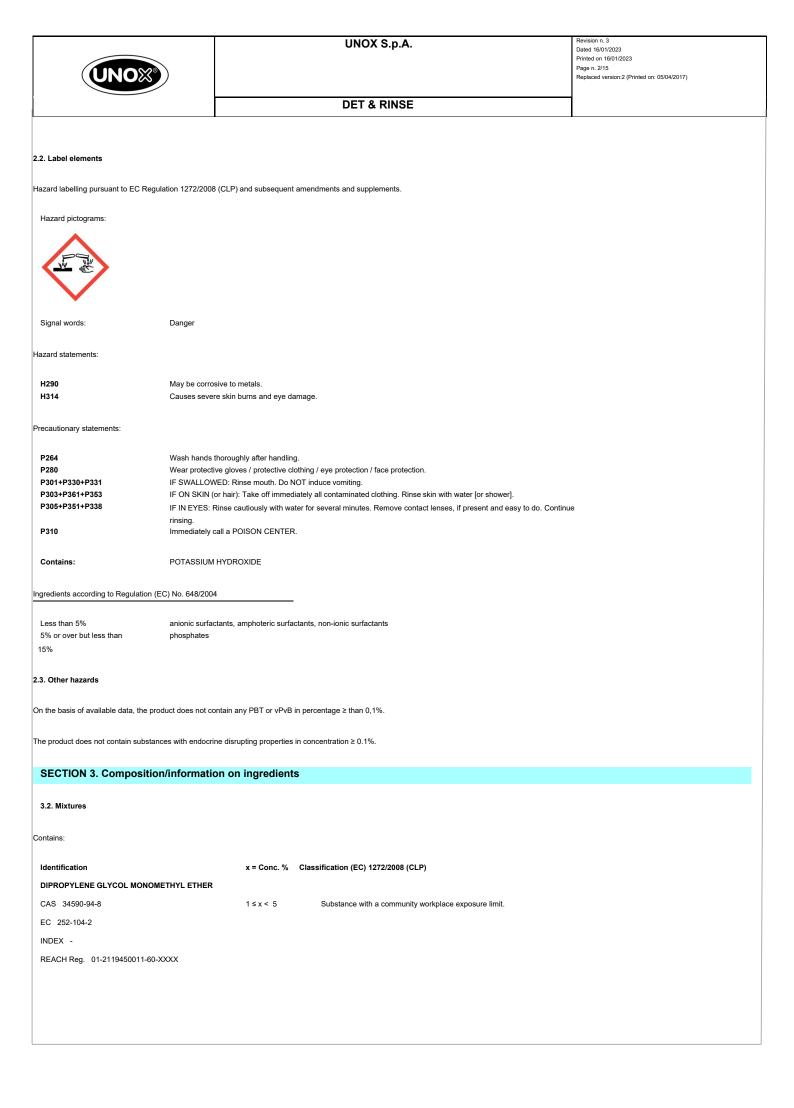
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product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet the	ne product is classified as bazardous pursuant to t	ne provisions set forth in (EC) Regulation 1272/2008 (CLP) (a	nd subsequent amendments and suppl	ements) The product thus requires a safety datasheet the
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additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.	y additional information concerning the risks for hea	th 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	May be corrosive to metals.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.



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		UNOX S.p.A.	Revision n. 3 Dated 16/01/2023		
			Printed on 16/01/2023		
			Page n. 3/15		
			Replaced version:2 (Printed on: 05/04/2017)		
			1		
		DET & RINSE			
POTASSIUM HYDROXIDE					
CAS 1310-58-3	1 ≤ x < 4,5	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H3	18		
EC 215-181-3		Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eye Dam. 1 H318: ≥ 2	2%, Eye Irrit. 2 H319: ≥ 0,5%		
INDEX 019-002-00-8		LD50 Oral: 333 mg/kg			
REACH Reg. 01-2119487136-33-XXXX					
D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUC	OSIDE				
CAS 68515-73-1	1 ≤ x < 3	Eye Dam. 1 H318			
EC 500-220-1					
INDEX -					
REACH Reg. 01-2119488530-36-XXXX					
ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLATES (> 2.5 EO)					
CAS 68439-51-0	1 ≤ x < 3	Aquatic Chronic 3 H412			
EC 931-986-9					
INDEX -					
REACH Reg. *					
The full wording of hazard (H) phrases is given in section	on 16 of the sheet.				
ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLAT * Exempted: polymer. See Article 2 (9) of Regulation (E	ES (> 2.5 EO) C) 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, its 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, laryngits, 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.

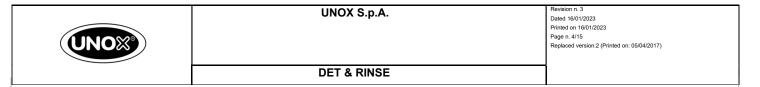
# 4.3. Indication of any immediate medical attention and special treatment needed

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

**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

Evacuate area. Send away individuals who are not suitably equipped. 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. Use breathing equipment if powders are released into the air.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water. Avoid the formation of powder and dispersion of the product in the air.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. Make sure the leakage site is well aired. It may be advisable to wash with water any surfaces contaminated with traces of dust, without contaminating waste water.

### 6.4. Reference to other sections

Notify the competent authorities if the product has reached waterways or if it has contaminated the ground or vegetation.

# **SECTION 7. Handling and storage**

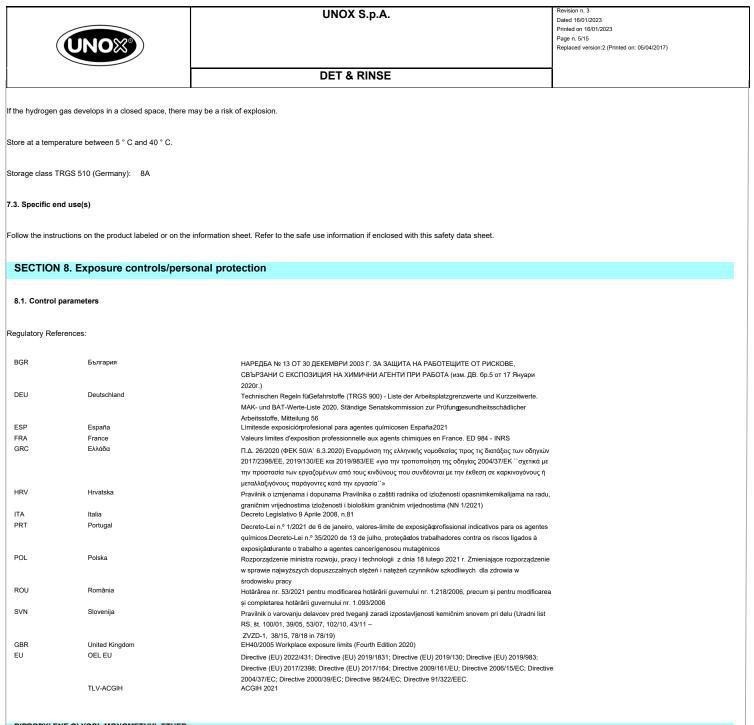
#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

Use only with the automatic system supplied with UNOX ovens. Use frequency: up to 5 days/week. Duration of use: up to 10 minutes/day.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details. 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.



# DIPROPYLENE GLYCOL MONOMETHYL ETHER

Туре	Country	TWA/8h		STEL/15min		Remarks /	
						Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	308	50			SKIN	
AGW	DEU	310	50	310	50		
МАК	DEU	310	50	310	50		
VLA	ESP	308	50			SKIN	
VLEP	FRA	308	50			SKIN	
TLV	GRC	600	100	900	150		
GVI/KGVI	HRV	308	50				
VLEP	ITA	308	50			SKIN	

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NACKIM       60/6       60/7       19/8 ()       19/1 ()         Predicted interfleted consentiation : PRLU       19/8 ()       mg/1          Normal value for finative usation : PRLU       19/8 ()       mg/1          Normal value for finative usation : PRLU       19/8 ()       mg/2          Normal value for finative usation : PRLU       7.92 (	NACKEMIDE <t< td=""><td>TLV-ACGIH</td><td>GBR</td><td>308</td><td>50</td><td></td><td></td><td>SKIN</td><td></td><td></td></t<>	TLV-ACGIH	GBR	308	50			SKIN		
Name:       13       mgl       mgl         Name:       1,2       mgl       mgl       mgl         Name:       1,2       mgl       mgl       mgl       mgl         Name:       1,2       mgl       mgl       mgl       mgl       mgl         Name:       1,2       mgl			EU	308	50			SKIN		
Name:       13       mgl       mgl         Name:       1,2       mgl       mgl       mgl         Name:       1,2       mgl       mgl       mgl       mgl         Name:       1,2       mgl       mgl       mgl       mgl       mgl         Name:       1,2       mgl		Predicted no-effect concentration - PNEC		606	100	909 (C)	150 (C)			
Normal value in name water         1.3         mg/s           Normal value for hear water sedment         7,12         mg/s           Normal value for water, itemmenter roteaus         10.0         mg/s           Normal value for the tenestrial compariment         2.4         mg/s           Normal value for de roteaus         Anale focal         Anale focal         Anale           Normal value for the tenestrial compariment         2.4         mg/s         100           Staff of de appone         Anale focal         Anale focal         Anale         Chonic focal         Chonic focal           Staff of de appone         Anale focal         Anale focal         Anale focal         Anale         Chonic focal         Chonic focal           Staff of de appone         Anale focal         Anale focal         Anale         Chonic focal         Chonic focal         Chonic focal         Chonic focal										
Normal value for final investor readment       70.2       mg/kg         Normal value for mailine value for mailine value for mailine value for mailine value of 51P micrologianuals       193       mg/kg         Normal value for mailine value of 51P micrologianuals       4108       mg/kg         Normal value for the function gamma       193       mg/kg         Normal value for the function gamma       Autile systemic       193       mg/kg         Normal value for the function gamma       Autile systemic       Normal value for the function gamma       Normal value for the function gamma         Normal value for the function gamma       Autile systemic       Normal value for the function gamma       Normal value for the function gamma         Normal value for the function gamma       Autile systemic       Normal value for the function gamma       Normal value for the function gamma       Normal value for the function gamma         Normal value for function gamma       VND       Strangel gamma       Normal value for the function gamma       Normal value for the function gamma         Normal value for function gamma       VND       Strangel gamma       Normal value for the function gamm		Normal value in fresh water				19		ng/l		
Apple Service S		Normal value in marine water				1,9		ng/l		
Normal value for marine water sediment       7,02       mg/s         Normal value for water, intermitted release       190       mg/s         Normal value for size results       163       mg/s         Normal value for bit burreful a conjustment       2,14       mg/s         Normal value for bit burreful a conjustment       2,14       mg/s         Normal value for bit burreful a conjustment       2,14       mg/s         Normal value for bit burreful a conjustment       Aude systemic       workers         Normal value for bit burreful a conjustment       Aude systemic       workers         Normal value for bit burreful a conjustment       Aude systemic       workers         Normal value for bit burreful a conjustment       Aude systemic       workers         Normal value for marker water set for the conjustment       Aude systemic       workers         Normal value for marker water set for the conjustment       Aude systemic       workers         Normal value for marker water set for the conjustment       Normal value for marker water set for the conjustment       Normal value for the conjustment         Normal value for marker water set for the conjustment       Normal value for the conjustment       Normal value for the conjustment         Normal value for the conjustment       VRD       37 mg/sd       NRD       NRD		Normal value for fresh water sediment				70,2		ng/kg		
Normal value for water, intermittent release         190         mgit           Normal value for water, intermittent release         4188         mgit           Normal value for the threshini compartment         2,74         mgitg           Health - Derived no-effect level - DNEL / DMEL         Effects on consummers         workers           Roade of exposure         Acute local         Acute systemic         Moreal           State         Chronolic local         Chronolic local         Acute           systemic         systemic         systemic         systemic           systemic         VND         37,2 mgind3         VND         310 mgind3           Stem         VND         18 mg/kgid         VND         300 mgind3           Stem         VND         18 mg/kgid         VND         65 mg/kgid           Config         TVND         18 mg/kgid         VND         65 mg/kgid           Config         TVND         18 mg/kgid         VND         16 mg/kgid           Config         TVND         18 mg/kgid         VND         16 mg/kgid           Config         TVND         18 mg/kgid         VND         16 mg/kgid           Config         T         T <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
Normal value of S1P moroorganems     4183     mgl       Normal value for the terrestrate comparitment     2,74     mg/kg       Health - Derived no-effect level - DNEL / DMEL enderson     Effects on onvariants     Effects on onvariants     Effects on onvariants       Roade of exposure     Acade local     Acade systemic     Chronic local     Chronic lo	Read value of bit Priority description       101       ngl         Versite value of the Strict									
Name         2,14         mg/kg           Health - Derived no-effect level - DNEL / DNEL / Effects on onson         Effects on onson         Othronic local / Acute optionic         Acute local / Acute optionic           Acute local / Acute local / Acute         Acute local / Acute         MAD         Acute optionic         Acute	3,2     gene       Set of provide on effective I-VEL/VEL/VEL/VEL/VEL/VEL/VEL/VEL/VEL/VEL/									
Bilesta on consumer         Effects on consumer         Chronic boal         Chronic           Chronic boal <td>Bits in a constant of the set of th</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Bits in a constant of the set of th									
Effects on consumes       Effects on consumers	Effect on survey         werker           Note frequencies         Acide forcial		DMEL			-,		U		
Route of exposure     Acute local     Acute systemic     Chronic local     Acute local systemic     Acute local systemic     Chronic local systemic       Initiation     VND     37.2 mg/m3     VND     310 mg/m3       Stin     VND     15 mg/kg/d     VND     85 mg/kg/d       POTASSIUM HYDROXIDE     VND     15 mg/kg/d     VND     85 mg/kg/d       POTASSIUM HYDROXIDE     mg/m3     ppm     ng/m3     ppm       Threshold Limit Value     VND     15 mg/kg/d     VND     0bservations       VID     BGR     2     VID     0bservations       VID     GRC     2     2     VID     VID       VID     GRC     2     VID <td>Kole di spolare     Acule local     Acule local</td> <td></td> <td>Effects on</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Kole di spolare     Acule local		Effects on							
Inhalation VND 37,2 mg/m3 VND 310 mg/m3 Skin VND 15 mg/kg/d VND 65 mg/kg/d POTASSIUM HYDROXIDE Threshold Limit Value Type Country IWA/Bh STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm TLV BGR 2 VLA ESP 2 VLA ESP 2 VLP FRA 2 VLP FRA 2 VLP FRA 2 VLP GRC 2 Country RV VLP GRC 2 COURCIN RV VLC CGR 2 COURCIN RV COURCIN R	nikalion VRD 37.2 mg/m3 VRD 310 mg/m3 Stin VRD 15 mg/kg/d VRD 45 mg/kg/d POTASSUM HYDROXIDE Threshold Limit Value Type Country TWASh STELTSmn Remarks / Observations Try BOR 2 ULP RA 2 ULP FRA 2 ULP FRA 2 ULP FRA 2 ULP CARE			Acute systemic Ch	ronic local				Chronic local	
POTASSIUM HYDROXIDE Threshold Limit Value Type Country IWA/8h SIEL/ISmin Remarks / Observations  ILV BGR 2	Operations         Set of the	nhalation			VND			systemic	VND	
POTASSIUM HYDROXIDE Threshold Limit Value Type Country IWA/8 SIEL/15min Remarks / Observations  IV BGR 2 IV BGR 2 IV BGR 2 IV C C C C C C C C C C C C C C C C C C	Or Carsing       Walking       Set Ut Sham       Benearies / Deservations         1979       Carring       ppm       ngm3       ppm	Skin			VND	15 mg/kg/d			VND	65 mg/kg/d
mg/m3     ppm     mg/m3     ppm       TLV     BGR     2       VLA     ESP     2       VLP     FRA     2       TLV     GRC     2       GRC     2       VLEP     FRA     2       VEV     GRC     2       VEV     GRC     2       VEV     GRC     2       VEV     GBR     2       VEL     GBR     2       VEL     CBR     2       VEL     CBR     2       VEL     CBR     2       VEL     CBR     2       VEL     Effects on workers       Consumers     workers       Route of exposure     Acute local     Acute Systemic       Chronic local     Chronic local     Chronic local     Chronic local	mg/m3     ppm     mg/m3     ppm       TLV     BOR     2       VLA     ESP     2       VLEP     FRA     2       TLV     GRC     2       SOVRAUT     HRV     2       VEE     GBR     2       TLVACGIH     2(C)       Health - Derived no-effect level - DNEL / DMEL     Effects on consumers       Mainers     2(C)       Health - Derived no-effect level - DNEL / DMEL     Effects on consumers       Mainers     Radie local     Acute systemic       Produced of exposure     Acute local     Acute systemic       Insignation     1 mg/m3     VND       DeGLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE     0,1     mg/t       Produced no-effect concentration - PNEC     0,1     mg/t       Normal value in marine water     0,31     mg/t       Normain value for frish water sedment     0,48     mg/tg	Гуре	Country	TWA/8h		STEL/15min				
VLA ESP 2 VLEP FRA 2 TLV GRC 2 GVC/KGVI HRV 2 WEL GBR 2 TLV-ACGIH CBR 2 TLV-ACGIH 2 Kette to a GBR 2 TLV-ACGIH 2 CO Kette to a Acute or a Acute or a Acute or a Acute Chronic local Chronic or a systemic systemi	VLA     ESP     2       VLEP     FRA     2       TLV     GRC     2       GRC     2     2       GVIRGVI     HRV     2       WEL     GBR     2       TLVACGIH     2       Health - Derived no-effect level - DNEL/ Effects on consumers     Effects on workers       Roule of exposure     Acute local     Acute systemic       Chronic local     Chronic local     Chronic local       Thalablon     1 mg/m3     VND       DesLUCOPYRANOSE, OLICOMER CE-CI O ELUCOSIDE     Systemic       Predicted no-selfect concentration - PNEC     0,1     mg/l       Normal value in fresh water     0,487     mg/kg       Normal value for marine water sediment     0,048     mg/kg			mg/m3	ppm	mg/m3	ppm			
VLEP     FRA     2       TLV     GRC     2     2       GVI/RGVI     HRV     2     2       WEL     GBR     2     2       TLV-ACGIH     2     2       Effects on sonsumers       Route of exposure     Acute systemic       Acute of exposure     Acute colal     Acute     Chronic local	VLEP       FRA       2         TLV       GRC       2       2         GVIRGVI       HRV       2	rLV	BGR	2						
TLV GRC 2 2 GV/RGV/ HRV 2 WEL GBR 2 TLV-ACGIH 2 Health - Derived no-effect level - DNEL / DMEL Health - Derived no-effect level - DNEL / DMEL Health - Derived no-effect level - DNEL / DMEL Health - Derived no-effect level - DNEL / DMEL Route of exposure Acute local Acute systemic Chronic local Chronic local Chronic local Chronic local Chronic local Systemic syst	TLV     GRC     2     2       GVIRGVI     HRV     Z       WEL     GBR     2       TLV-ACCIH     2 (C)       Health - Derived no-effect level - DNEL / DMEL     Effects on consumers       Effects on consumers     vorkers       Route of exposure     Acute local     Acute systemic       Acute local     Acute systemic     Chronic Acute local     Acute       Instalation     1 mg/m3     VND     1 mg/m3	ΛA	ESP			2				
GV/RGVI     HRV     2       WEL     GBR     2       TLV-ACGIH     2 (C)       Health - Derived no-effect level - DNEL / DMEL       Effects on consumers     Effects on workers       Route of exposure     Acute local     Acute systemic     Chronic local     Acute local     Acute or systemic	GVIRGVI     HRV     2       WEL     GBR     Z       TLV-ACGIH     2 (C)       Health - Derived no-effect level - DNEL / DMEL Effects on consumers     Effects on consumers     Effects on workers       Route of exposure     Acute systemic     Chronic local     Acute       Route of exposure     Acute systemic     Chronic local     Acute       Inhalation     1 mg/m3     VND     1 mg/m3       D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE     Predicted no-effect concentration - PNEC     Img/m3       Normal value for fresh water     0,1     mg/r       Normal value for fresh water sediment     0,487     mg/kg	JLEP	FRA			2				
WEL     GBR     2       TLV-ACGIH     2 (C)       Health - Derived no-effect level - DNEL / DMEL     2 (C)       Effects on consumers     Effects on workers       Route of exposure     Acute systemic       Chronic local     Acute local       Acute local     Acute       Systemic     systemic	WEL     GBR     2       ILV-ACGIH     2 (C)       Heatth - Derived no-effect level - DNEL / DMEL Effects on consumers     Effects on consumers     Effects on workers       Route of exposure     Acute local     Acute     Chronic local     Chronic systemic       Route of exposure     Acute local     Acute     Chronic local     Chronic systemic       Inhalation     1 mg/m3     VND     1 mg/m3     VND	ĨLV	GRC	2		2				
ILV-ACGIH     2 (C)       Health - Derived no-effect level - DNEL / DMEL     Effects on       Effects on     Effects on       consumers     workers       Route of exposure     Acute local     Acute ocal     Acute local     Acute       Route of exposure     Acute local     Chronic local     Chronic     systemic	TLV-ACGIH       2 (C)         Health - Derived no-effect level - DNEL / DMEL       Effects on consumers         Consumers       workers         Route of exposure       Acute local       Acute       Chronic local       Chronic         Inhalation       1 mg/m3       VND       1 mg/m3       VND         D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE       Img/m3       VND       1 mg/m3       VND         Predicted no-effect concentration - PNEC       0,1       mg/r       Img/r       Img/r         Normal value in fresh water       0,01       mg/kg       Img/kg       Img/kg       Img/kg       Img/kg	GVI/KGVI	HRV			2				
Health - Derived no-effect level - DNEL / DMEL Effects on consumers Route of exposure Acute local Acute systemic Chronic local Chronic Systemic S	Health - Derived no-effect level - DNEL / DMEL         Effects on consumers       Effects on workers         Route of exposure       Acute local       Acute systemic       Chronic local       Acute of Acute local       Chronic local       Chronic systemic       Systemic<	WEL	GBR			2				
Effects on consumers     Effects on workers       Route of exposure     Acute local     Acute systemic     Chronic local     Chronic     Acute local     Acute     Chronic local     Chronic systemic     Systemic     Systemic	Effects on consumers       Effects on workers         Route of exposure       Acute local       Acute systemic       Chronic local       Acute local       Acute       Chronic local       Chronic         Inhalation       1 mg/m3       VND       1 mg/m3       VND       1 mg/m3       VND         D-GLUCOPYRANOSE, DLIGOMER C8-C10 GLUCOSIDE       Img/m3       VND       1 mg/m3       VND       1 mg/m3       VND         Predicted no-effect concentration - PNEC       Img/m3       VND       Img/m3       VND       Img/m3       VND         Normal value in fresh water       0,1       mg/l       Img/m3       I	ILV-ACGIH				2 (C)				
consumers         workers           Route of exposure         Acute local         Acute systemic         Chronic local         Chronic         Acute local         Acute         Chronic local         Chronic         Systemic         Sy	consumers       workers         Route of exposure       Acute local       Acute systemic       Chronic local       Acute local       Acute       Chronic local       Chronic systemic	Health - Derived no-effect level - DNEL / I								
systemic systemic systemic	systemic     systemic     systemic       Inhalation     1 mg/m3     VND     1 mg/m3     VND         D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE   Predicted no-effect concentration - PNEC       Normal value in fresh water     0,1     mg/l   Normal value in marine water          Normal value in marine water     0,487     mg/kg									
	Inhalation 1 mg/m3 VND 1 mg/m3 VND D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE Predicted no-effect concentration - PNEC Normal value in fresh water 0,1 mg/l Normal value in marine water 0,01 mg/l Normal value for fresh water sediment 0,487 mg/kg Normal value for marine water sediment 0,048 mg/kg	Route of exposure	Acute local	Acute systemic Ch	ronic local		Acute local		Chronic local	
initiatauon intrymis VND img/m3 VND	Predicted no-effect concentration - PNEC         Normal value in fresh water       0,1       mg/l         Normal value in marine water       0,01       mg/l         Normal value for fresh water sediment       0,487       mg/kg         Normal value for marine water sediment       0,048       mg/kg	nhalation			1 mg/m3			systemic	1 mg/m3	
ininginia VND 1 mg/m3 VND	Predicted no-effect concentration - PNEC         Normal value in fresh water       0,1         Normal value in marine water       0,01         Normal value in marine water       0,01         Normal value for fresh water sediment       0,487         Normal value for marine water sediment       0,048		Acute local	Acute systemic Ch		systemic	Acute local			systemic
	Normal value in fresh water     0,1     mg/l       Normal value in marine water     0,01     mg/l       Normal value for fresh water sediment     0,487     mg/kg       Normal value for marine water sediment     0,048     mg/kg		10 GLUCOSIDE							
	Normal value in marine water     0,01     mg/l       Normal value for fresh water sediment     0,487     mg/kg       Normal value for marine water sediment     0,048     mg/kg					0,1		ng/l		
Predicted no-effect concentration - PNEC	Normal value for fresh water sediment     0,487     mg/kg       Normal value for marine water sediment     0,048     mg/kg									
Predicted no-effect concentration - PNEC Normal value in fresh water 0,1 mg/l	Normal value for marine water sediment 0,048 mg/kg									
Predicted no-effect concentration - PNEC         Normal value in fresh water       0,1         Normal value in marine water       0,01         mg/l										
Predicted no-effect concentration - PNEC         Normal value in fresh water       0,1       mg/l         Normal value in marine water       0,01       mg/l         Normal value for fresh water sediment       0,487       mg/kg	Invirtial value for water, internititerit release U,27 Mg/l									
Predicted no-effect concentration - PNEC         Normal value in fresh water       0,1       mg/l         Normal value in marine water       0,01       mg/l         Normal value for fresh water sediment       0,487       mg/kg         Normal value for marine water sediment       0,048       mg/kg		vormal value for water, intermittent release				0,27		ng/I		
Predicted no-effect concentration - PNEC         Normal value in fresh water       0,1       mg/l         Normal value in marine water       0,01       mg/l         Normal value for fresh water sediment       0,487       mg/kg         Normal value for marine water sediment       0,048       mg/kg										



# UNOX S.p.A.

Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023 Page n. 7/15 Replaced version:2 (Printed on: 05/04/2017)

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# Normal value of STP microorganisms

Normal value for the terrestrial compartm	nent			0,654	m	g/kg		
Health - Derived no-effect level -	DNEL / DMEL							
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral			37,5 mg/kg/d	VND				
Inhalation			VND	420 mg/m3				
Skin			VND	357000			VND	595000
				mg/kg/d				mg/kg/d

560

### Legend

(C) = CELING ; 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), polyvinylchloride (0,5 mm).

#### SKIN PROTECTION

Wear category II 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 airtight protective 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, a mask with a type A filter combined with a type P2 filter should be worn (see standard EN 14387). 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.

# 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	characteristic	
Odour threshold	not applicable	Reason for missing data:Not applicable to



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> 10	D° C	mixtures.	
Melting point / freezing point Initial boiling point	not determined	Reason for missing data:no test available	
Flammability	not applicable (liquid		
> 60	. ,		
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			
Auto-ignition temperature	not available		
Decomposition temperature	not available		
pH	14	Temperature: 20 °C	
Kinematic viscosity	not available		
Solubility	soluble in water		
Partition coefficient: n-octanol/water	not applicable	Reason for missing data:Not applicable to mixtures.	
Vapour pressure	not available		
Density and/or relative density	1,10-1,25		
Relative vapour density	not available		
Particle characteristics	not applicable		
9.2. Other information			
9.2.1. Information with regard to physical hazard cla	asses		
Information not available			
9.2.2. Other safety characteristics			
VOC (Directive 2010/75/EU)	4,60 %		
VOC (volatile carbon)	2,61 %		
Explosive properties		ubstances contained has functional groups	
Oxidising properties	associated with explosive pro not applicable. None of the c associated with oxidizing pro	ontained substances has functional groups	

# **SECTION 10. Stability and reactivity**

# 10.1. Reactivity

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

No hazardous reactions are foreseeable in normal conditions of use and storage.

# POTASSIUM HYDROXIDE

Reacts violently with: strong acids.Develops hydrogen on contact with: aluminium alloys,copper alloys,zinc alloys,light metals.Reacts violently with: peroxides.



DIPROPYLENE GLYCOL MONOMETHYL ETHER LD50 (Dermal):

LD50 (Oral):

POTASSIUM HYDROXIDE

LD50 (Oral):

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

LD50 (Dermal): LD50 (Oral): > 2000 mg/kg Coniglio, equivalente o simile a OECD linea guida 402
 > 2000 mg/kg Ratto - OECD linea guida 423

333 mg/kg rat (OECD method 425 - Bruce R.D., Fund. Apll. Toxicol., 8, 97-100).

9500 mg/kg rabbit

5660 mg/kg rat

> 2000 mg/kg

ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLATES (> 2.5 EO) LD50 (Oral):

SKIN CORROSION / IRRITATION Corrosive for the skin



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POTASSIUM HYDROXIDE Corrosive (OECD method 431 - Perkins M.A. et al., Fund. Appl. Toxicol., 31, 9-18).

SERIOUS EYE DAMAGE / IRRITATION Causes serious eye damage

POTASSIUM HYDROXIDE Corrosive (OECD method 405 - Johnson g.t. et al, Toxicol. Appl. Pharmacol., 32, 239-245).

RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class

POTASSIUM HYDROXIDE Not sensitizing (Johnson G.T. et al, Toxicol. Applied Pharmacol., 32, 239-245).

Respiratory sensitization Information not available

Skin sensitization Information not available

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

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

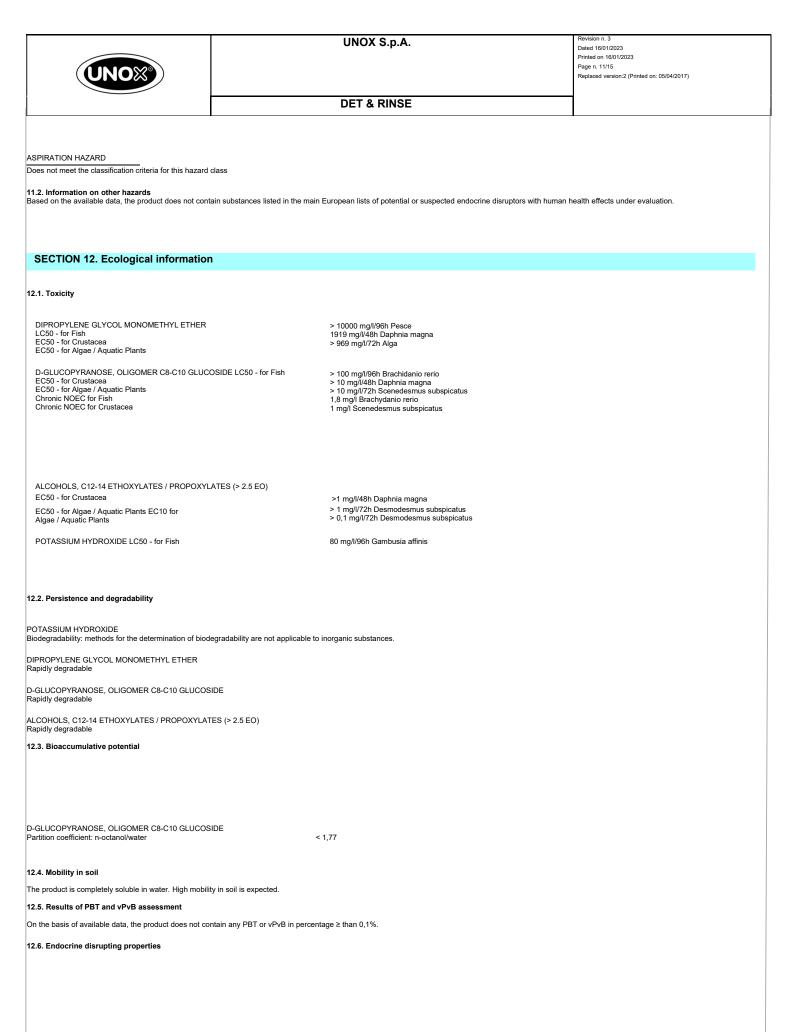
Target organs Information not available

Route of exposure Information not available

STOT - REPEATED EXPOSURE Does not meet the classification criteria for this hazard class

Target organs Information not available

Route of exposure Information not available



UNO			Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023 Page n. 12/15 Replaced version:2 (Printed on: 05/04/2017)
	DET & RIN	ISE	
ased on the available data, th	e 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			
to other significant adverse eff	ects for the environment are known.		
SECTION 13. Dispos	al considerations		
Disposal must be performed thr Vaste transportation may be su CONTAMINATED PACKAGING		nd local regulations.	d be evaluated according to applicable regulations.
SECTION 14. Transp	ort information		
14.1. UN number or ID numbe	r 1814		

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

# 14.3. Transport hazard class(es)

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

Ш



# 14.4. Packing group

ADR / RID, IMDG, IATA:

# 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO

			Revision n. 3	
	UNOX S.p.A.		Dated 16/01/2023 Printed on 16/01/2023	
		Printed on 16/01/2023 Page n. 13/15 Replaced version:2 (Printed on: 05/04/2017)		
	DET & RINSE		1	
	•			
IATA: NO				
14.6. Special precautions for user				
ADR / RID:	HIN - Kemler: 80	Limited	Tunnel restriction	
	Special provision: -	Quantities: 5 L	code: (E)	
IMDG:	EMS: F-A, S-B	Limited		
IATA:	Cargo:	Quantities: 5 L Maximum	Packaging	
	Pass.:	quantity: 60 L	instructions: 856	
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852	
	Special provision:	A3, A803		
14.7. Maritime transport in bulk according to IMO	instruments			
Information not relevant				
SECTION 15. Regulatory informati	on			
15.1. Safety, health and environmental regulation	ons/legislation specific for the substance or mixture			
Seveso Category - Directive 2012/18/EU: None				
Restrictions relating to the product or contained subs	tances pursuant to Annex XVII to EC Regulation 1907/2006			
Product	3			
Point				
Contained substance				
	76			
Point	75			
Regulation (EU) 2019/1148 - on the marketing and u	se of explosives precursors			
not applicable				
Substances in Candidate List (Art. 59 REACH)				
On the basis of available data, the product does not o	contain any SVHC in percentage ≥ than 0,1%.			
	СН)			
Substances subject to authorisation (Annex XIV REA None				
Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None				
Substances subject to the Rotterdam Convention: None				

UNOX	UNOX S.p.A.	Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023 Page n. 14/15 Replaced version:2 (Printed on: 05/04/2017)
	DET & RINSE	

# Substances subject to the Stockholm Convention:

None

# Healthcare controls

### 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.

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

# **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	
Skin Corr. 1B	Skin corrosion, category 1B	
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.	
H318	Causes serious eye damage.	
H412	Harmful to aquatic life with long lasting effects.	

Use descriptor system:

ERC	8a	Widespread use of non- reactive processing aid (no inclusion into or onto article, indoor)
LCS	PW	Widespread use by professional workers
PC	35	Washing and cleaning products
PROC	8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities

# 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)



**DET & RINSE** 

LEGEND

- ADR: European Agreement concerning the carriage of Dangerous goods by Road ATE: Acute Toxicity Estimate CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008 DNEL: Derived No Effect Level

- EmS: Emergency Schedule GHS: Globally Harmonized System of classification and labeling of chemicals IATA DGR: International Air Transport Association and labeling of chemicals IATA DGR: International Air Transport Association Dangerous Goods Regulation IC50: Immobilization Concentration 50% IMDC: International Maritime Organization IMDEX: Identifier in Annex VI of CLP LC50: Lethal Concentration 50% LD50: Lethal Concentration 50%

- DEL: Occupational Exposure Level PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration
- PEL: Predicted exposure level PNEC: Predicted no effect concentration REACH: Regulation (EC) 1907/2006

- RID: Regulation concerning the international transport of dangerous goods by train TLV: Threshold Limit Value TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit TWA STEL: Short-term exposure limit VOC: Volatile organic Compounds

- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament

- Regulation (EC) 1907/2006 (KEACH) of the European Pairiament
   Regulation (EC) 1727/2008 (CLP) of the European Parliament
   Regulation (EU) 2020/878 (II Annex of REACH Regulation)
   Regulation (EU) 2020/878 (II Annex of REACH Regulation)
   Regulation (EU) 208/2011 (II Atp. CLP) of the European Parliament
   Regulation (EU) 818/2012 (III Atp. CLP) of the European Parliament
   Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
   Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
   Regulation (EU) 905/2014 (VI Atp. CLP) of the European Parliament
   Regulation (EU) 2016/2121 (VII Atp. CLP) of the European Parliament
   Regulation (EU) 2016/2121 (VII Atp. CLP) of the European Parliament
   Regulation (EU) 2016/2121 (VII Atp. CLP) of the European Parliament
   Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
   Regulation (EU) 2016/918 (VII Atp. CLP) of the European Parliament
   Regulation (EU) 2016/918 (VII Atp. CLP)
   Regulation (EU) 2019/7176 (X Atp. CLP)
   Regulation (EU) 2019/7176 (X Atp. CLP)
   Regulation (EU) 2019/91148
   Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
   Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
   Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
   Delegated Regulation (UE) 2020/1483 (XVII Atp. CLP)
   Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)

- The Merck Index. 10th Edition Handling Chemical Safety INRS - Fiche Toxicologique (toxicological sheet)

- Patty Industrial Hygiene and Toxicology N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition IFA GESTIS website ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

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:

sections were modified The followir 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.

CALCULATION METHODS FOR CLASSIFICATION