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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 Code: Product name UFI: P500-Y034-J00S-YGF6

DB1015A0 - DB1014A0 - DB1041A0 DET & RINSE

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	Industrial	Professional	Consumer	
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

Name UNOX Australia Pty. Ltd.

Full address 7/100 New Street, Ringwood, VIC. 3134 District and Country

T +61 3 9876 0803 http://www.unox.com

e-mail address of the competent person responsible for the Safety Data Sheet

crmsupport@unoxaustralia.com.au

1.4. Emergency telephone number

+61 1800 686 951 (Australia) For urgent inquiries refer to

+64 800 451719 (New Zealand)

Access code: 334577

Hours: 24/7

3E

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:

H290 Substance or mixture corrosive to metals, category 1 May be corrosive to metals.

Skin corrosion, category 1A H314 Causes severe skin burns and eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms:



Signal words: Danger



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D-

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER.

Contains: POTASSIUM HYDROXIDE

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

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

phosphonates, anionic surfactants, amphoteric surfactants

5% or over but less than non-ionic surfactants

15%

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

POTASSIUM HYDROXIDE CAS 1310-58-3 $5 \le x \le 15$

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

EC 215-181-3 H319: ≥ 0,5%

LD50 Oral: 333 mg/kg

INDEX 019-002-00-8

REACH Reg. 01-2119487136-33-XXXX

GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

CAS 68515-73-1 5 ≤ x < 15 EC 500-220-1 Eye Dam. 1 H318

INDEX -REACH Reg. 01-2119488530-36-XXXX

DIPROPYLENE GLYCOL MONOMETHYL ETHER CAS 34590-94-8 5 \leq 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 1 ≤ x < 4 EC 257-573-7 Met. Corr. 1 H290

INDEX REACH Reg. 01-2119493604-38-XXXX

ALKYL ETHER CARBOXYLIC ACID CAS

53563-70-5 $1 \le x < 4$ Eye Dam. 1 H318, Skin Irrit. 2 H315

EC INDEX -REACH Reg. *



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

CAS 68439-51-0 1 ≤ x < 4 EC 931-986-9 REACH Reg.

Aquatic Chronic 3 H412

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.

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.



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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

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 $^{\circ}$ C and 40 $^{\circ}$ C.

Storage class TRGS 510 (Germany):

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
		2020Γ.)
DEU	Deutschland	Technischen Regeln füßefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.
		MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfunggesundheitsschädlicher
===		Arbeitsstoffe, Mitteilung 56
ESP	España	Límitesde exposiciórprofesional para agentes químicosen 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) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών
		2017/2398/EE, 2019/130/EE και 2019/983/EE «για την τροποποίηση της οδηγίας 2004/37/EK ``σχετικά με
		την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή
		μεταλλαξιγόνους παράγοντες κατά την εργασία``»
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 exposiçãoprofissional indicativos para os agentes
		químicos.Decreto-Lei n.º 35/2020 de 13 de julho, proteçãodos trabalhadores contra os riscos ligados à
		exposiçãodurante o trabalho a agentes cancerígenosou 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
		și 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, 39/05, 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) 2019/983;
		Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

POTASSIUM HYDROXIDE
Threshold Limit Value

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			,			
VLLI	1104			2			
TLV	GRC	2		2			



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GVI/RGVI WEL TLV-ACGIH Health - Derived no-effect level - DNEL Route of exposure Inhalation	GBR			2				
TLV-ACGIH Health - Derived no-effect level - DNEL Route of exposure								
Health - Derived no-effect level - DNEL Route of exposure	./ DMEL			2				
Route of exposure	./ DMEL			2 (C)				
	Effects on consumers				Effects on workers			
Inhalation	Acute local	Acute systemic C	hronic local	Chronic	Acute local	Acute	Chronic local	
			1 mg/m3	systemic VND		systemic	1 mg/m3	systemic VND
D-GLUCOPYRANOSE, OLIGOMER C8	-C10 GLUCOSIDE							
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,1	m	ng/l		
Normal value in marine water				0,01	m	mg/l		
Normal value for fresh water sediment				0,487	n	ng/kg		
Normal value for marine water sediment				0,048				
						ng/kg		
Normal value for water, intermittent release				0,27		ng/l		
Normal value of STP microorganisms				560	m	ng/l		
Normal value for the terrestrial compartment				0,654	m	ng/kg		
Health - Derived no-effect level - DNEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic C	hronic local	Chronic	Acute local	Acute	Chronic local	
Oral			37,5 mg/kg/d	systemic VND		systemic		systemic
Inhalation			VND	420 mg/m3				
Skin			VND	357000			VND	595000
				mg/kg/d				mg/kg/d
DIPROPYLENE GLYCOL MONOMETHY								
	/L ETHER							
Threshold Limit Value	Country	I WA/8h		STEL/15min		Remarks /		
Threshold Limit Value			anm.		200	Remarks / Observations		
Threshold Limit Value	Country	mg/m3	ppm	STEL/15min mg/m3	ppm	Observations		
Threshold Limit Value Type TLV	Country	mg/m3 308	50	mg/m3				
Threshold Limit Value Type TLV	Country	mg/m3			ppm 50	Observations		
Threshold Limit Value Type TLV AGW MAK	Country	mg/m3 308	50	mg/m3		Observations		
Threshold Limit Value Type TLV AGW	EGR DEU	mg/m3 308 310	50	mg/m3 310	50	Observations		
Threshold Limit Value Type TLV AGW MAK	BGR DEU DEU	mg/m3 308 310 310	50 50 50	mg/m3 310	50	Observations SKIN		
Threshold Limit Value Type TLV AGW MAK VLA	BGR DEU DEU ESP	mg/m3 308 310 310 308	50 50 50	mg/m3 310	50	Observations SKIN SKIN		
Threshold Limit Value Type TLV AGW MAR VLA VLEP	BGR DEU DEU ESP FRA	mg/m3 308 310 310 308 308	50 50 50 50 50	mg/m3 310 310	50	Observations SKIN SKIN		
Threshold Limit Value Type TLV AGW MAK VLA VLEP TLV GVIJKGVI	BGR DEU DEU ESP FRA GRC HRV	mg/m3 308 310 310 308 308 600 308	50 50 50 50 50 50 100	mg/m3 310 310	50	Observations SKIN SKIN SKIN		
Threshold Limit Value Type TLV AGW MAK VLA VLEP TLV GVI/KGVI	BGR DEU DEU ESP FRA GRC HRV	mg/m3 308 310 310 308 308 600 308	50 50 50 50 50 50 100 50	mg/m3 310 310	50	SKIN SKIN SKIN		
Threshold Limit Value Type TLV AGW MAK VLA VLEP TLV GVI/KGVI VLEP	ESP FRA GRC HINV ITA PRT	mg/m3 308 310 310 310 308 308 308 308 308 308	50 50 50 50 50 50 100	310 310 310 900	50	Observations SKIN SKIN SKIN		
Threshold Limit Value Type TLV AGW MAK VLA VLEP TLV GVI/RGVI VLEP VLE NDS/NDSCh	ESP FRA GRC HRV ITA PRT	mg/m3 308 310 310 308 308 308 600 308 308 308 240	50 50 50 50 50 100 50 50	mg/m3 310 310	50	SKIN SKIN SKIN SKIN		
Threshold Limit Value Type TLV AGW MAK VLA VLEP TLV GVI/RGVI VLEP VLE NDS/NDSCh	ESP FRA GRC HINV ITA PRT	mg/m3 308 310 310 310 308 308 308 308 308 308	50 50 50 50 50 50 100 50	310 310 310 900	50	SKIN SKIN SKIN		
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Threshold Limit Value Type TLV AGW MAK VLA VLEP TLV GVI/KGVI VLEP VLE NDS/NDSCh TLV	ESP FRA GRC HRV ITA PRT POL ROU	mg/m3 308 310 310 310 308 308 600 308 308 308 308 308 308	50 50 50 50 50 50 50 50 50	310 310 310 900	50	Observations SKIN SKIN SKIN SKIN SKIN SKIN		
Threshold Limit Value Type TLV AGW	ESP FRA GRC HRV ITA PRT POL ROU SVN	mg/m3 308 310 310 310 308 308 600 308 308 308 308 308 308	50 50 50 50 50 50 50 50 50 50	310 310 310 900	50	SKIN SKIN SKIN SKIN SKIN SKIN		



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

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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	

Health - Derived no-effect level	I - DNFI / DMFI							
Ticulai - Belived no-circul level	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Trodic or exposure	710410 10041	riodio dydioniio	Omorno ioodi	systemic	710010 10001	systemic	Omorno iodai	systemic
Inhalation			VND	37,2 mg/m3		systemic	VND	310 mg/m3
· · · · · · · · · · · · · · · · · · ·			*****	07, <u>2</u> g/0			*****	o to mgmio
Skin			VND	15 mg/kg/d			VND	65 mg/kg/d

Predicted no-effect concentration - PNEC			
Normal value in fresh water	2	mg/l	
Normal value in marine water	0,2	ma/l	
Normal value in manne water	0,2	mg/l	
Normal value for water, intermittent release	1	mg/l	
Normal value of STP microorganisms	41.2	mg/l	
Tomas Talab of CTT Inforces gamento	,=	9	
Normal value for the food chain (secondary poisoning)	67	mg/kg	
Health - Derived no-effect level - DNEL / DMEL			

nearth - Derived no-effect le	vei - DNEL / DIVIEL						
	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), polychloroprene (0,5 mm), polychloride (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 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, furnes, 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.

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.





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SECTION 9. Physical and chemical properties

> 100 °C

9.1. Information on basic physical and chemical properties

Properties Value Information

> 100 °C

Appearance liauid

Colour straw vellow

Odour characteristic of solvent Method:organoleptic

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

mixtures.

Melting point / freezing point not determined Reason for missing data:no test available

Initial boiling point

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

270 °C Auto-ignition temperature Substance:DIPROPYLENE GLYCOL

MONOMETHYL ETHER

Decomposition temperature not available

Reason for missing data:no test available Method:pH meter

Concentration: 100 %

Method:R1; 200 rpm Kinematic viscosity not available

Reason for missing data:Property not relevant for the purposes of

Dynamic viscosity 1-50 mPa.s

soluble in water Solubility

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 Substance:DIPROPYLENE GLYCOL

MONOMETHYL ETHER Particle characteristics not applicable

9.2. Other information

No other information available.

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Evaporation rate not determined VOC (Directive 2010/75/EU) 5,50 %

VOC (volatile carbon)

Explosive properties not applicable. None of the

substances contained has functional groups associated with explosive

properties.

Oxidising properties not applicable. None of the

contained substances has functional groups associated with oxidizing properties.

Reason for missing data:no test available



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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

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

10.4. Conditions to avoid

Avoid contact with: strong acids,oxidising agents,light metals,copper alloys,zinc alloys,aluminium alloys.

10.5. Incompatible materials

Corrodes: aluminium,aluminium alloys,copper,copper alloys,zinc,zinc alloys

Compatible materials: polyethylene,polypropylene,PVC.

Incompatible materials: aluminium.aluminium alloys,copper,copper alloys,zinc,zinc alloys.

Avoid contact with acids

10.6. Hazardous decomposition products

If exposed to a fire, for thermal decomposition, leads to the formation of: carbon oxides, nitrogen oxides, sulfur oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological

effects of exposure to the product.

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

Dermal. Inhalation is not a significant source of exposure under intended conditions of use. It can only occur in unforeseen conditions of use when aerosols and / or droplets are formed.

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 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.

Interactive effects
|No interactive effects are known for the product and the substances it contains.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture: Not classified (no significant component) >2000 mg/kg

ATE (Dermal) of the mixture:

Not classified (no significant component)

POTASSIUM HYDROXIDE

LD50 (Oral): $333\ mg/kg\ rat\ (OECD\ method\ 425$ - Bruce R.D., Fund. Apll. Toxicol., 8, 97-100).

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

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

LD50 (Oral):

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Dermal):

LD50 (Oral): 5660 mg/kg rat



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LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): > 2000 mg/kg rat, (OECD 402). > 2000 mg/kg rat (EC B.1). > 4,2 mg/l/4h rat (OECD 403).

ALKYL ETHER CARBOXYLIC ACID

LD50 (Oral): > 2000 mg/kg rat

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

LD50 (Oral): > 2000 mg/kg

SKIN CORROSION / IRRITATION Corrosive for the skin

Classification according to the experimental Ph value

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER Not irritating (rabbit, OECD method 404).

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

Not irritating (OECD method 404).

ALKYL ETHER CARBOXYLIC ACID Causes skin irritation (supplier's data).

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).

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Not irritating (J. Toxicol. Cutan. Ocul. Toxicol.2:229-242, 1984).

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Not irritating (OECD

method 404).

ALKYL ETHER CARBOXYLIC ACID Causes skin irritation (supplier's data).

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).

DIPROPYLENE GLYCOL MONOMETHYL ETHER Not irritating (J. Toxicol. Cutan. Ocul. Toxicol.2:229-242, 1984).

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Not irritating (OECD method 405).

ALKYL ETHER CARBOXYLIC ACID

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

POTASSIUM HYDROXIDE

0,1% sodium hydroxide solutions have no sensitizin effects (Johnson G.T. et al, Toxicol. Appl. Pharmacol., 32, 239-245). As potassium hydroxide is corrosive further studies are not required.

DIPROPYLENE GLYCOL MONOMETHYL ETHER No sensitizing effects.



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TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Not sensitizing (OECD method 406).

ALKYL ETHER CARBOXYLIC ACID It is not a sensitizer (supplier data).

Respiratory sensitization Information not available

Skin sensitization Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

POTASSIUM HYDROXIDE

Ames test: negative (Fujita H et al, Kenkyu Nenpo-Tokyo-Toritsu Eisei Kenkyusho, 43, 219-227). No genotoxic effect 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 Gene mutation: negative (OECD method 476).

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE
In vitro genetic toxicity (Bacterial Reverse Mutation Test, Ames test): negative (OECD method 471).
In vitro genetic toxicity (In vitro Mammalian Cell Gene Mutation Test): negative (OECD method 476).
In vitro genetic toxicity (Mammalian Erythrocyte Micronucleus Test): negative (OECD method 474).
In vitro genetic toxicity (In Vitro Mammalian Chromosome Aberration Test): negative (OECD method 473).

ALKYL ETHER CARBOXYLIC ACID

In vito experiments (bacteria): negative (supplier data). No mutagenic effect (Read-across)(supplier data).

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

POTASSIUM HYDROXIDE

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 No carcinogenic effect realed (OECD method 453). TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE No adverse effect observed.

ALKYL ETHER CARBOXYLIC ACID No carcinogenic effect known (supplier data).

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



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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

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 aquatic 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 LC50 - for Fish

80 mg/l/96h Gambusia affinis

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LC50 - for Fish EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

> 10000 mg/l/96h Pesce 1919 mg/l/48h Daphnia magna

> 969 mg/l/72h Alga

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

LC50 - for Fish EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

> 100 mg/l/96h Rainbow trout

> 100 mg/l/48h Daphnia magna > 100 mg/l/72h



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D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea

> 100 mg/l/96h Brachidanio rerio > 10mg/l/48h Daphnia magna > 10 mg/l/72h Scenedesmus subspicatus 1,8 mg/l Brachydanio rerio 1 mg/l Scenedesmus subspicatus

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

EC50 - for Crustacea > 1 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants EC10 for Algae / Aquatic Plants > 1 mg/l/72h Desmodesmus subspicatus > 0,1 mg/l/72h Desmodesmus subspicatus

ALKYL ETHER CARBOXYLIC ACID

> 100 mg/l/96h OECD 203, Fish, Acute Toxicity Test. LC50 - for Fish

EC50 - for Crustacea > 100 mg/l/48h OECD 202, Daphnia sp. Acute Immobilization Test and Reproduction Test.

> 100 mg/l/72h OECD 201, Alga, Growth Inhibition Test. EC50 - for Algae / Aquatic Plants

12.2. Persistence and degradability

POTASSIUM HYDROXIDE

Biodegradability: methods for the determination of biodegradability are not applicable to inorganic substances.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

SECTION 13. Disposal considerations

Rapidly degradable

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE Rapidly degradable

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

Rapidly degradable

ALKYL ETHER CARBOXYLIC ACID

Rapidly degradable

12.3. Bioaccumulative potential

POTASSIUM HYDROXIDE

The n-octanol/water partitioning coefficient is not applicable. TETRASODIUM N.N-BIS(CARBOXYMETHYL)-L-GLUTAMATE

No data available indicating a potential for bioaccumulation (logKow<0).

TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Partition coefficient: n-

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE Partition coefficient: n-

octanol/water

12.4. Mobility in soil

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.

< 1 77

12.7. Other adverse effects

SECTION 13. Disposal considerations



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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

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

IATA:

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Label: 8 Class: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

IMDG:

ADR / RID: HIN - Kemler: 80 Limited Tunnel

Quantities: 1 restriction code: (E)

Special provision: -

EMS: F-A, S-B Limited Quantities: 1

IATA: Cargo: Maximum Packaging quantity: 30 L instructions:

Pass.:

855

Packaging Maximum instructions: quantity: 1 L

851

Special provision: A3, A803

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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

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1909/2006

3

Product

Point

Contained substance

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:

Substances subject to the Rotterdam Convention:

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.

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



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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.

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:

Widespread use of non- reactive processing aid (no inclusion into or onto article, indoor)

LCS PW

Widespread use by professional workers
Washing and cleaning products
Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
 ATE: Acute Toxicity Estimate
 CAS: Chemical Abstract Service Number

- 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 Dangerous Goods Regulation
 IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods IMO: International Maritime Organization IMDEX: 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

- POT: Persistent bloaccumulative 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

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- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 7. Regulation (EU) 944/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (IV Atp. CLP) of the European Parliament
 9. Regulation (EU) 9015/2014 (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) 2016/918 (VIII Atp. CLP) of the European Parliament
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2018/699 (XI Atp. CLP)
 16. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 17. Regulation (EU) 2019/521 (XII Atp. CLP)
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- 18. 19. 20.
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- 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



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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.

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: 01 / 02 / 03 / 09 / 10 / 11 / 12 / 15 / 16.