Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 07/04/2017 Revision date: 07/04/2017 Version: 2.1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product form Product identifier

Trade name Det&Rinse Plus Mixtures

Product code DB1015A0

# Relevant identified uses of the substance or mixture and uses advised aga

1.2.1. Relevant identified uses

Industrial/Professional use spec Main use category Professional Detergents

Use of the substance/mixture Oven cleaners

Any use that is not described in this sheet and in the technical documentation is to be considered incorrect/not recommended

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Emergency number (24h/24) Tel. (+)1 760 476 3961

Access Code: 334577 Tel (+)0-800-680-0425 (only UK)

National Poisons Information Service (NPIS)

Website: http://www.npis.org/ Email: director.birmingham.unit@npis.org

### SECTION 2: Hazards identification

## Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1

Serious eye damage/eye irritation, Category 1 H318 Skin corrosion/irritation, Category 1A

Full text of H statements : see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



potassium hydroxide, caustic potash Danger

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

Hazard statements (CLP)

Hazardous ingredients Signal word (CLP)

Precautionary statements (CLP) P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

No additional information available

## SECTION 3: Composition/information on ingredients

Not applicable

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
polassium hydroxide, caustic polash	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC noidex no) 019-002-00-8 (REACH-no) 01-2119487136-33	5 - 15	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
D-Glucopyranose, oligomeric, decyl octyl glycosides	(CAS No) 68515-73-1 (EC no) 500-220-1 (REACH-no) 01-2119488530-36	5 - 15	Eye Dam. 1, H318
Dipropylene glycol monomethyl ether-	(CAS No) 34590-94-8 (EC no) 252-104-2 (REACH-no) 01-2119450011-60	5 - 15	Not classified
Alcohols, C12-14, ethoxylated propoxylated	(CAS No) 68439-51-0 (EC no) 614-484-1 (REACH-no) Not available	1-4	Aquatic Chronic 3, H412
Poly(oxy-1,2-ethanedlyl), .alpha(carboxymethyl)omega (hexyloxy)	(CAS No) 105391-15-9 (EC no) 600-651-6 (REACH-no) Not available	1-4	Skin Irrit. 2, H315 Eye Dam. 1, H318
Poly(oxy-1,2-ethanedlyl), .alpha(carboxymethyl)omega (octyloxy)	(CAS No) 53563-70-5 (EC no) 611-013-1 (REACH-no) Not available	1-4	Eye Dam. 1, H318
Specific concentration limits:			
Name	Product identifier	Specific conc	Specific concentration limits
potassium hydroxide, caustic potash	(CAS No) 1310-58-3 (EC no) 215-181-3 (EC index no) 019-002-00-8 (REACH-no) 01-2119487136-33	(0.5 = <c 2)="" 2,="" <="" h315<br="" irrit.="" skin="">(0.5 =<c 2)="" 2,="" <="" eye="" h319<br="" irrit.="">(2 =<c 1b,="" 5)="" <="" corr.="" h314<br="" skin="">(C &gt;= 5) Skin Corr. 1A, H314</c></c></c>	in Irrit. 2, H315 e Irrit. 2, H319 Corr. 18, H314 rr 1A H314

Full text of H-statements: see section 16

### SECTION 4: First aid measures

First-aid measures general Self-protection of the first aider.

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention immediately.

First-aid measures after skin contact Immediately rinse with plenty of water (for at least 15 minutes). Remove contaminated clothing immediately and dispose of safely. Wash contaminated clothing before reuse. Seek medical

First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. attention immediately.

unconscious person. Do not induce vomiting. Immediately call a POISON CENTER or doctor/ physician. Never give anything by mouth to an

First-aid measures after ingestion

Symptoms/injuries after skin contact Symptoms/injuries after inhalation Causes severe burns. Corrosive to respiratory system. Causes burns

Symptoms/injuries after ingestion Symptoms/injuries after eye contact Causes serious eye damage. Corneal opacity. Iris lesions Severe irritation or burns to the mouth, throat, oesophagus, and stomach

where possible). Keep under medical supervision for at least 48 hours. In case of accident or if you feel unwell, seek medical advice immediately (show the label

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Scalable entiquishing modula  Unusuable entiquishing statements modulated in the personnel away from the furnes.  Enclause operated in the fulfiquities  Unusuable protection products. On combustion forms: carbon oxides (CO and CO2).  S. Advices for information  Unusuable explanent for findigities  Unusuable protection products. On combustion forms: carbon oxides (CO and CO2).  S. Advices for information  Unusuable explanent for findigities  Unusuable protection products. On combustion forms: carbon oxides (CO and CO2).  S. Protection explanent for findigities  Unusuable protection becomes the explanent paid combustion forms: carbon oxides (CO and CO2).  S. Protection explanent  Unusuable explanent protections  Entiquing in protection explanent  Unusuable explanent protections  Entiquing in protection explanent  Unusuable explanent protections  Explanent pr	EN (English) 3/13	07/04/2017
Extinguishing media able extinguishing media  Special hazards arising from the subst hazard losion hazard ardous decomposition products in case of aridous deciment or firefighters  etactive equipment for firefighters  arigency procedures  2. For emergency personnel ective equipment arigency procedures  2. For emergency responders  etactive equipment containment co	Keep away from food, drink and animal feeding stuffs.	Prohibitions on mixed storage
Extinguishing media able extinguishing media  Special hazards arising from the subst hazard losion hazard ardous decomposition products in case of arrivationary measures fire fighting instructions lective equipment for firefighters er information  CTION 6: Accidental release measure fire equipment for firefighters er information  CTION 6: Accidental release measure personal precautions, protective equipment argency personnel ective equipment 1. For non-emergency personnel ective equipment ective equipment 2. For emergency responders ective equipment rective equipment containment rective equipment containment co	<ul> <li>Keen away from onen flames, hot surfaces and sources of ignition</li> </ul>	Storage temperature  Heat and ignition sources
Extinguishing media able extinguishing media  Special hazards arising from the subst hazard losion hazard arrive fire fighters autionary measures fire fighting instructions fighting instructions lective equipment for firefighters er information  CTION 6: Accidental release measure er information  CTION 6: Accidental release measure er information  CTION 6: Accidental release measures  information  CTION 7: Handling and storage  Precautions for safe handling autions for safe handling autions for safe handling autions for safe storage, including hical measures  age conditions  informations  informations  informations  CTION 7: Handling and storage  informations  COnditions for safe storage, including informations  informations  CTION 7: Handling and storage, including informations  COnditions  informations  CONDITIONS  informations  CONDITIONS  informations  informations  informations  CONDITIONS  informations  informations  informations  informations  conditions for safe storage, including informations  informations  informations  CONDITIONS  informations  info	: Acids. alkali. oxidizing agents. Flammable materials. Peroxides.	Incompatible materials
Extinguishing media able extinguishing media sube extinguishing media subtable extinguishing media sypecial hazards arising from the substhazard losion hazard ardous decomposition products in case of advice for fire flighters autionary measures fire fighting instructions lective equipment for fireflighters er information  CTION 6: Accidental release measure personal precautions, protective equip er information  CTION 6: Accidental release measure personal precautions, protective equip er information  Environment ective equipment sigency procedures  For emergency responders ection are equipment containment conta	: Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight.	Storage conditions
Extinguishing media able extinguishing media itable extinguishing media ita	ng any incompatibilities  Provide adequate ventilation	<u>8</u>
Extinguishing media  Extinguishing media  Eable extinguishing media  Eable extinguishing media  Special hazards arising from the substity hazard  Josion hazard  Zardous decomposition products in case of an easurous decomposition products in case of earlier fighting instructions  Rective equipment for firefighters  Lective equipment for firefighters  Lective equipment for firefighters  Lective equipment for firefighters  Lective equipment  Lective	Containinated work conting should hot be allowed out of the workplace.	
Extinguishing media lable extinguishing media lable extinguishing media suitable extinguishing media suitable extinguishing media suitable extinguishing media suitable extinguishing media special hazards arising from the substigation hazard acautionary measures fire requipment for firefighters lective equipment for firefighters lective equipment for firefighters lective equipment regency procedures lective equipment lectiv		Hygiene measures
Extinguishing media  Lable extinguishing media  Lable extinguishing media  Special hazards arising from the substignation hazard  Josion hazard  Josion hazard  Ladvice for firefighters  Cautionary measures fire  Sighting instructions  Lective equipment for firefighters  Lective equipment for firefighters  Lective equipment  Lective eq	<ul> <li>Avoid contact with skin and eyes. Avoid breathing mist or vapor. Keep away from sources of ignition - No smoking. Take any precaution to avoid mixing with Incompatible materials. Open and handle container with care. Ensure operatives are trained to minimise exposures. Avoid formation of vapours.</li> </ul>	Precautions for safe handling
Extinguishing media  Lable extinguishing media  Lable extinguishing media  Special hazards arising from the substity hazard  Josion hazard  Ladvice for firefighters  Cortion Reasures fire  Sighting instructions  Lective equipment for firefighters  Lective equipment for firefighters  Lective equipment for firefighters  Lective equipment  Lective equipmen		7.1. Precautions for safe handling
Extinguishing media  Lable extinguishing media  Lable extinguishing media  Special hazards arising from the substity hazard  Josion hazard  Ladvice for firefighters  Ladvice for firefighters  Leaditionary measures fire  sighting instructions  Leaditive equipment for firefighters  Leaditive equipment for firefighters  Leaditive equipment for firefighters  Leaditive equipment  Leaditive		SECTION 7: Handling and storage
Extinguishing media  Lable extinguishing media  Lable extinguishing media  Special hazards arising from the substity hazard  Josion hazard  Zardous decomposition products in case of cautionary measures fire fighters  Leading instructions  Rective equipment for firefighters  Ler information  CTION 6: Accidental release measurer information procedures  Ler information containment  Personal precautions, protective equipment  Lettive equipment responders  Lettive equipment responders  Lettive equipment responders  Lettive equipment responders  Lettive equipment containment  Lettive cont	posal considerations. For further information refer to section 8: "Exposure controls/personal	6.4. Reference to other sections  For disposal of residues refer to section 13 : Disp protection".
Extinguishing media  Lable extinguishing media  Lable extinguishing media  Special hazards arising from the subst  b hazard  losion hazard  Zardous decomposition products in case of  advice for firefighters  cautionary measures fire  righting instructions  tective equipment for firefighters  cer information  Personal precautions, protective equipment  for non-emergency personnel  tective equipment  regency procedures  cergency procedures  containment  co	: Do not allow uncontrolled discharge of product into the environment.	Other information
Extinguishing media  Lable extinguishing media  Lable extinguishing media  Lable extinguishing media  Special hazards arising from the substigation hazard  Losion hazard	Ventilate affected area. Wear personal protection equipment. Collect in closed containers for disposal. Wash with plenty of soap and water. Consult the appropriate authorities about waste disposal. Wash contaminated area with large amounts of water.	Methods for cleaning up
Extinguishing media  Extinguishing media  Lable extinguishing media  Lable extinguishing media  Special hazards arising from the substishazard  Losion hazard  Losion hazard  Losion hazard  Advice for firefighters  Cautionary measures fire  Enghting instructions  Lective equipment for firefighters  Lective equipment for firefighters  Lective equipment  L	ant and cleaning up  Stop leak if safe to do so. Recover small spills with a suitable absorbent, like diatomaceous earth. Recover large soilis by pumping fuse an explosion proof or hand pump).	contai
Extinguishing media  able extinguishing media  able extinguishing media  Special hazards arising from the substination hazard losion hazard  Advice for firefighters  cautionary measures fire fighting instructions  tective equipment for firefighters  crinformation  CITION 6: Accidental release measure  Personal precautions, protective equipment  For non-emergency personnel  tective equipment  2. For emergency responders  tective equipment  tective equipment  Environmental precautions  Environmental precautions  Environmental precautions  Environmental precautions  Environmental precautions	penetration. Relevant water authorities should be notified of any large spillage to water course or	Avoid release to the environment. Avoid sub-soil drain.
Extinguishing media  Be extinguishing media  She extinguishing media  Special hazards arising from the substrazard  sion hazard  sion hazard  Advice for firefighters  utionary measures fire phting instructions  ctive equipment for firefighters  ctive equipment procautions, protective equipment  Personal precautions, protective equipment  Personal precautions protective equipment  Personal precautions arising from the substractive equipment  For non-emergency personnel  ctive equipment  Sency procedures  For emergency responders  ctive equipment  Sency procedures		
Extinguishing media  Beatinguishing media  Sele extinguishing media  Special hazards arising from the substinazard  Special hazards arising from the substinazard  sion hazard  Advice for firefighters  Advice for firefighters  Advice applications  chive equipment for firefighters  chive equipment for firefighters  information  Personal precautions, protective equipment  Err non-emergency personnel  chive equipment  For emergency responders  Chive equipment  Sency procedures  For emergency responders  chive equipment  Sency procedures	<ul> <li>Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapours. Ventilate affected area. Consult an expert.</li> </ul>	Emergency procedures
Extinguishing media  Extinguishing media  Sle extinguishing media  Special hazards arising from the substitution hazard  sion hazard  sion hazard  Advice for firefighters  Advice for firefighters  chive equipment  Personal precautions, protective equipment  Personal precautions for firefighters  information  For non-emergency personnel  chive equipment  Spency procedures  For emergency responders		Linedize edulpinetir
Extinguishing media  Be extinguishing media  Itable extinguishing media  Itable extinguishing media  Special hazards arising from the substitute extinguishing media  Special hazards arising from the substitute extinguishing products in case of  Advice for firefighters  Lithory measures fire information  TION 6: Accidental release measure for non-emergency personnel the equipment  Tronon-emergency personnel the equipment  Err non-emergency personnel the equipment  Extra procedures  Extinguishing media  Exting		
Extinguishing media  Be extinguishing media  See extinguishing media  Special hazards arising from the substitute extinguishing media  Special hazards arising from the substitute of the substi	Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard.	Emergency procedures
Extinguishing media  Extinguishing media  Se extinguishing media  Special hazards arising from the substance extinguishing media  Special hazards arising from the substance  List of the substance of the substanc	: Wear personal protection equipment. Do not attempt to take action without suitable protective equipment.	tive
Extinguishing media  Extinguishing media  able extinguishing media  Special hazards arising from the substite hazard  losion hazard  losion hazard  ardous decomposition products in case of arising from the substite hazard  is ardous decomposition products in case of arising from the substite hazard  is ardous decomposition products in case of arising from the substite hazard  is around the substitutions in case of arising from the substitutions arising from the substitutions arising from the substitutions are find from the substitution are find from the substitution are find from the substitution ar		
Extinguishing media  Extinguishing media  Lable extinguishing media  Special hazard arising from the substate hazard  losion hazard  losion hazard  Advice for firefighters  Cautionary measures fire  Cautionary measures fire  cationary measures fire  sighting instructions  tective equipment for firefighters  tective equipment for firefighters  :	Sures uipment and emergency procedures	CTIO
Extinguishing media  Extinguishing media  Suitable extinguishing media  Special hazards arising from the substrated hazard arising from the substrated hazard arising from the substrated hazard  Zardous decomposition products in case of arising from the substrated hazard  Extended the substrated hazard hazard hazard hazard hazard hazard hazard from the substrated hazard h	: Do not allow run-off from fire fighting to enter drains or water courses.	Other information
Extinguishing media  Extinguishing media  Lable extinguishing media  Special hazard arising from the substate hazard  losion hazard  Lardous decomposition products in case of a cardous decomposition	<ul> <li>Extra personal protection: complete protective clothing including self-contained breathing apparatus.</li> </ul>	Protective equipment for firefighters
Extinguishing media  Extinguishing media  : Itable extinguishing media : Suitable extinguishing media : Special hazards arising from the substance of hazard : Itable extinguishing products in case of italications decomposition products in case of italications.  Advice for firefighters		caution efightin
Extinguishing media  Extinguishing media  Lable extinguishing media  Lable extinguishing media  Special hazards arising from the substity hazard  hazard  Lable hazard case of		
Extinguishing media  Extinguishing media  :: table extinguishing media :: suitable extinguishing media :: Special hazards arising from the substite hazard :: hazard		olosion hazard zardous decomposition products in case
Extinguishing media Extinguishing media table extinguishing media : suitable extinguishing media	Distance or mixture  : On burning: release of (highly) toxic gases/vapours.	5.2. Special nazards ansing from the sur-
to ION 5: Firefighting measures  Extinguishing media  table extinguishing media	: Do not use water jet.	Unsuitable extinguishing media
SECTION 5: Firenighting measures	: Water fog. carbon dioxide (CO2), dry chemical powder, foam.	table e
CIT. CIN ST LIPOTICINE MODELING		SECTION 3: Firefiguring measures

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Storage area
Packaging materials Use explosion-proof lighting equipment.
 stainless steel. Polyvinylchloride (PVC). Polyethylene. Teffon. Neoprene. Unsuitable material:
 Do not use aluminum, tin or zinc containers, Copper, Lead, Tin (inorganic compounds).

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

Dipropylene glycol mon	Dipropylene glycol monomethyl ether- (34590-94-8)	-
	IOELV TWA (mg/m³)	308 mg/m <sup>2</sup>
Austria	MAK (mg/m³)	307 mg/m³ (mixed isomers)
Austria	MAK (ppm)	50 ppm (mixed isomers)
Austria	MAK Short time value (mg/m³)	614 mg/m³ (isomers mixtures)
Austria	MAK Short time value (ppm)	100 ppm (isomers mixtures)
Belgium	Limit value (mg/m³)	308 mg/m³
Belgium	Limit value (ppm)	50 ppm
Bulgaria	OEL TWA (mg/m³)	308 mg/m³
Bulgaria	OEL TWA (ppm)	50 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	308 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Cyprus	OEL TWA (mg/m³)	308 mg/m³
Cyprus	OEL TWA (ppm)	50 ppm
Czech Republic	Expoziční limity (PEL) (mg/m³)	270 mg/m³
Denmark	Grænseværdie (langvarig) (mg/m³)	309 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Estonia	OEL TWA (mg/m³)	308 mg/m³
Estonia	OEL TWA (ppm)	50 ppm
Finland	HTP-arvo (8h) (mg/m³)	310 mg/m³
Finland	HTP-arvo (8h) (ppm)	50 ppm
France	VME (mg/m³)	308 mg/m³ (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	310 mg/m³ (isomer mixture)
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm (isomer mixture)
Gibraltar	OEL TWA (mg/m³)	308 mg/m³
Gibraltar	OEL TWA (ppm)	50 ppm
Greece	OEL TWA (mg/m³)	600 mg/m³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m³)	900 mg/m³
Greece	OEL STEL (ppm)	150 ppm
Hungary	AK-érték	308 mg/m³
Hungary	CK-érték	308 mg/m² (Substances with European indicative limits (96,94EC, 2000/39/EC, 2006/15/EC), which currently has no peak limit concentration. In these cases, Annex 3.1, should be used exercised)
Ireland	OEL (8 hours ref) (mg/m³)	308 mg/m³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m3)	924 mg/m³ (calculated)
Ireland	OEL (15 min ref) (ppm)	150 ppm (calculated)
Italy	OEL TWA (mg/m³)	308 mg/m³
Italy	OEL TWA (ppm)	50 ppm
Latvia	OEL TWA (mg/m³)	308 mg/m³
Latvia	OEL TWA (ppm)	50 ppm
Lithuania	IPRV (mg/m³)	300 mg/m³
Lithuania	IPRV (ppm)	50 ppm
	-	

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100 ppm	OSHA PEL (TWA) (ppm)	USA - OSHA
600 mg/m³	OSHA PEL (TWA) (mg/m³)	USA - OSHA
150 ppm	NIOSH REL (STEL) (ppm)	USA - NIOSH
900 mg/m³	NIOSH REL (STEL) (mg/m³)	USA - NIOSH
100 ppm	NIOSH REL (TWA) (ppm)	USA - NIOSH
600 mg/m³	NIOSH REL (TWA) (mg/m³)	USA - NIOSH
600 ppm	US IDLH (ppm)	USA - IDLH
150 ppm	ACGIH STEL (ppm)	USA - ACGIH
100 ppm	ACGIH TWA (ppm)	USA - ACGIH
100 ppm	VEMP (ppm)	Canada (Quebec)
606 mg/m³	VEMP (mg/m³)	Canada (Quebec)
909 mg/m³	VECD (mg/m²)	Canada (Quebec)
50 ppm	TWA (ppm)	Australia
308 mg/m³	TWA (mg/m³)	Australia
50 ppm	VLE (ppm)	Switzerland
300 mg/m³	VLE (mg/m³)	Switzerland
50 ppm	VME (ppm)	Switzerland
300 mg/m³	VME (ma/m³)	Switzerland
50 ppm	Grenseverdier (Korttidsverdi) (ppm)	Norway
300 mg/m³	Grenseverdier (Korttidsverdi) (mg/m3)	Norway
50 ppm	Grenseverdier (AN) (ppm)	Norway
300 mg/m³	Grenseverdier (AN) (mg/m³)	Norway
150 ppm (calculated)	WEL STEL (ppm)	United Kingdom
924 mg/m³ (calculated)	WEL STEL (mg/m³)	United Kingdom
50 ppm	WEL TWA (ppm)	United Kingdom
308 mg/m³	WEL TWA (mg/m³)	United Kingdom
75 ppm	kortidsvärde (KTV) (ppm)	Sweden
450 mg/m³	kortidsvärde (KTV) (mg/m³)	Sweden
50 ppm	nivågränsvärde (NVG) (ppm)	Sweden
300 mg/m³	nivågränsvärde (NVG) (mg/m³)	Sweden
50 ppm (indicative limit value)	VLA-ED (ppm)	Spain
308 mg/m³ (indicative limit value)	VLA-ED (mg/m³)	Spain
50 ppm	OEL TWA (ppm)	Slovenia
308 mg/m³	OEL TWA (mg/m³)	Slovenia
568 mg/m³	NPHV (Hraničná) (mg/m³)	Slovakia
50 ppm	NPHV (priemerná) (ppm)	Slovakia
308 mg/m³	NPHV (priemerná) (mg/m³)	Slovakia
50 ppm	OEL TWA (ppm)	Romania
308 ma/m³	OEL TWA (mg/m³)	Romania
150 ppm (Indicative limit value)	OEL STEL (ppm)	Portugal
308 mg/m³ (indicative limit value)	OEL TWA (mg/m³)	Portugal
480 mg/m³ (mixture of isomers: Propanol, 1(or 2)-(2-methoxymethylethoxy)-, Propanol, 1-(1-methoxymethylethoxy)	NDSCh (mg/m²)	Poland
240 mg/m³ (mixture of isomers)	NDS (mg/m³)	Poland
300 mg/m³	Grenswaarde TGG 8H (mg/m³)	Netherlands
50 ppm	OEL TWA (ppm)	Malta
308 mg/m³	OEL TWA (mg/m³)	Malta
75 ppm	TPRV (ppm)	Lithuania
450 mg/m³	TPRV (mg/m³)	Lithuania
	Dipropylene glycol monomethyl ether- (34590-94-8)	Dipropylene glycol mon

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#### 8.2. Exposure controls

### Appropriate engineering controls:

Provide adequate ventilation.

#### Personal protective equipment:

Safety glasses. Gloves. Protective clothing. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

### Materials for protective clothing:

Rubbers. PVC (Polyvinyl chloride). Natural fibres (e.g. cotton)

#### Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Break through time: ≥ 480 min. Thickness of glove material: 0.4-0.5 mm. Chemical resistant gloves (nitrile-rubber, PVC, neoprene)

#### Eye protection:

Wear eye glasses with side protection according to EN 166. Do not wear contact lenses

#### Skin and body protection:

Chemical resistant protective apron/clothing (tested to EN 14605 or equivalent)

An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits. Wear a respirator conforming to EN140 with Type A/P2 filter or better. EN 14387. Combination filtering device (DIN EN Respiratory protection:



SECTION 9: Physical and chemical properties	operties
9.1. Information on basic physical and chemical properties	mical properties
Physical state :	Liquid
Colour :	straw yellow.
Odour :	characteristic.
Odour threshold :	No data available
pH :	14 at 20°C
Relative evaporation rate (butylacetate=1)	No data available
Melting point :	No data available
Freezing point :	No data available
Boiling point :	> 100 °C
Flash point :	No data available
Auto-ignition temperature :	No data available
Decomposition temperature :	No data available
Flammability (solid, gas)	Not flammable
Vapour pressure :	No data available
Relative vapour density at 20 °C	No data available
Relative density :	No data available
Density :	1.1 - 1.25 kg/l
Solubility :	soluble in water.
Log Pow :	No data available
Viscosity, kinematic :	No data available
Viscosity, dynamic :	No data available
Explosive properties :	Not expected to be explosive as none of the components is classified as explosive.
Oxidising properties :	Not oxidising.
Explosive limits	No data available
9.2. Other information	
VOC content	5.5%

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10 - 100 mg/l Scenedesmus subspicatus	EC50 72h algae (1)
10 - 100 mg/l	EC50 Daphnia 1
> 100 mg/l Brachydario rerio	LC50 fish 1
osides (68515-73-1)	D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)
1 - 10 mg/l (OECD 201 method)	EC50 72h algae (2)
0.1 - 1 mg/l (OECD 201 method)	EC50 72h algae (1)
> 10000 mg/l Bacteria toxicity	EC50 other aquatic organisms 1
- IO (OFFICE ZOZ FIRENTOU)	TOTO Daprilla I
1 10 (OECD 203 mothod)	ECOC ISIT
1 - 10 mg/l (OECD 203 method)	1 CSO fish 1
8439-51-0)	Alcohols C12-14 ethoxylated propoxylated (68439-51-0)
80 mg/l Gambusia affinis	LC50 fish 1
-3)	potassium hydroxide, caustic potash (1310-58-3)
	12.1. Loxicity
	ఠ
Not classified	Aspiration hazard :
Not classified	STOT-repeated exposure
Not classified	STOT-single exposure
Not classified	Reproductive toxicity
Not classified	Carcinogenicity
Not classified	Germ cell mutagenicity
Not classified	Respiratory or skin sensitisation
pH: 14 at 20°C	
Causes serious eye damage.	Serious eye damage/irritation
Causes severe shiri durins and eye darriage. pH: 14 at 20°C	ONIT COTTOSICIVII TRALICIT
Causes across akin huma and any damped	Ckin porrogion/instation
5400 mg/kg	LDSO Clair at
94-8)	Dipropylene glycol monomethyl ether- (34590-94-8)
2000 High (OECD 402 Highbor)	LD30 deliliar lat
> 2000 mg/kg (OECD 423 method)	LU50 dermal rat
osides (68515-73-1)	D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)
> 2000 mg/kg	LU5U oral rat
18439-51-0)	Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)
333 mg/kg	LD50 oral rat
-3)	potassium hydroxide, caustic potash (1310-58-3)
Not classified	Acute toxicity
	11.1. Information on toxicological effects
ā	Ħ
On combustion or on thermal decomposition (pyrolysis) releases : Nitrogen oxides (NOx). Carbon dioxide (CO2). Phosphorus oxides. Sulfur oxides. Pyrolysis products, toxic.	On combustion or on thermal decomposition (pyro Pyrolysis products, toxic.
	10.6. Hazardous decomposition products
erials.	O Xi
	10.5. Incompatible materials
	awa
	10.4. Conditions to avoid
	b und
	10.3. Possibility of hazardous reactions
	Stable under normal conditions.
in (stong) exidens.	is ex
	10.1. Reactivity
	SECTION 10: Stability and reactivity

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D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)	ycosides (68515-73-1)
NOEC chronic fish	1.8 mg/l Brachydanio rerio
NOEC chronic crustacea	1 mg/l Daphinia Magna
Dipropylene glycol monomethyl ether- (34590-94-8)	0-94-8)
LC50 fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	4168 mg/l Active sludge
EC50 72h algae (1)	> 969 mg/l Pseudokirchneriella subcapitata

The state of the s	
potassium hydroxide, caustic potash (1310-58-3)	3-3)
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Dipropylene glycol monomethyl ether- (34590-94-8)	-94-8)
Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 day
12.3. Bioaccumulative potential	
Det&Rinse Plus	
Bioaccumulative potential	Low bioaccumulation potential.
potassium hydroxide, caustic potash (1310-58-3)	3-3)
Bioaccumulative potential	No bioaccumulation.
Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	58439-51-0)
Log Pow	<1.77
Bioaccumulative potential	No bioaccumulation.
Dipropylene glycol monomethyl ether- (34590-94-8)	-94-8)
Log Pow	0.004
Bioaccumulative potential	No bioaccumulation.
12.4. Mobility in soil	
Det&Rinse Plus	
Ecology - soil	Expected to be highly mobile in soil.

### 12.6. Other adverse effects

Results of PBT assessment Det&Rinse Plus

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.5. Results of PBT and vPvB assessment

No additional information available

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Waste treatment methods Reuse or recycle following decontamination. External recovery and recycling of waste should comply with applicable local and/or national regulations. Recycling is preferred to disposal or incineration.

Waste disposal recommendations Dispose of this material and its container at hazardous or special waste collection point.
 HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye
 HP8 - "Corrosive:" waste which on application can cause skin corrosion

## SECTION 14: Transport information

HP Code

In accordance with ADR / RID / IMDG / IATA / ADN

ADR 14.1. UN number	IMDG	IATA	ADN	REAL REAL
1814	1814	1814	1814	18
14.2. UN proper shippi	ng name			
POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	Potassium hydroxide solution	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION
Transport document description	ription			
UN 1814 POTASSIUM HYDROXIDE SOLUTION,	UN 1814 POTASSIUM HYDROXIDE SOLUTION,	UN 1814 Potassium hydroxide solution, 8, II	UN 1814 POTASSIUM HYDROXIDE SOLUTION,	UN 1814 POTASSIUM HYDROXIDE SOLUTION
8, II, (E)	8, =		8, =	_

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	Dangerous for the environment: No	14.5. Environmental hazards	=	14.4. Packing group	œ	14.3. Transport haza	ADR
N	Dangerous for the environment: No Marine pollutant: No	hazards	=		8	ırd class(es)	IMDG
No supplementary information available	Dangerous for the environment: No		=		8		IATA
/ailable	Dangerous for the environment : No		=		8		ADN
	Dangerous for the environment : No		=		œ		RID

### 14.6. Special precautions for user

Limited quantities (ADR) Transport category (ADR) Overland transport .. .. .. E 2 <del>|</del>

Limited quantities (IMDG) Transport by sea

Tunnel restriction code (ADR)

EmS-No. (Spillage) EmS-No. (Fire) .. .. 1L S-B

PCA Limited quantities (IATA) Air transport

CAO packing instructions (IATA) PCA max net quantity (IATA) PCA packing instructions (IATA) : Y840 : 851 : 1L

ort in bulk accor ng to Annex II of Marpol and the IBC Code

#### Not applicable

## SECTION 15: Regulatory information

Safety, health and envii ental regulat specific for the substar

15.1.1. EU-Regulations

Contains no substance on the REACH candidate list Contains no REACH substances with Annex XVII restrictions

Contains no REACH Annex XIV substances

VOC content

. 5.5 %

Contains: < 5% anionic surfactants, amphoteric surfactants, phosphonates Contains: 5% - 15 % non-ionic surfactants

15.1.2. National regulations Seveso Information

VwVwS Annex reference

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex

Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

 None of the components are listed None of the components are listed

NIET-limitatieve lijst van voor de voortplanting None of the components are listed

giftige stoffen - Borstvoeding

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen – Ontwikkeling

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

For the following substances of this mixture a chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

potassium hydroxide, caustic potash

D-Glucopyranose, oligomeric, decyl octyl glycosides

### SECTION 16: Other information

#### Abbreviations and acronyms:

SDS	Safety Data Sheet
	CAS - Chemical Abstracts Service
	GHS - Globally Harmonised System
	CSR - Chemical Safety Report
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	PVC (Polyvinyl chloride).
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
νPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

### Full text of H- and EUH-statements

Other information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Harmful to aquatic life with long lasting effects

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Met. Corr. 1	DRZH	Calculation method
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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## ANNEX. Exposure scenario for ingredients

Short title of Exposure Scenario: Professional use	
Sector of use (SU).	SU 22
Product category (PC).	PC35
Process category (PROC).	PROC2
Environment release category (ERC).	ERC8a
Contributing scenario controlling environmental exposure	
Product characteristics.	Covers concentrations up to 100%
Frequency and duration of use.	Continued exposure
Technical and specific conditions on-site to reduce or limit the drainage, emissions to the air and discharge to the earth.	A regular check of the pH is required in case of drainage into open waters. In general the drainage should take place in such a way as to minimize any modifications to the pH of the surface water. In general the majority of aquatic organisms are able to tolerate pH values between 6-9, as reported in the description of the OECD standard tests on aquatic organisms. The measures of risk management for the environment are aimed at avoiding drainage into public drainage systems or surface water, in the event in which such discharges would be able to cause significant changes to the pH.
Conditions and measures regarding the external treatment of waste for disposal.	The waste must be reused or discharged into industrial water drains and neutralized if necessary
Contributing scenario controlling worker exposure	
Product characteristics	Covers concentrations up to 100%
Quantity used	0,6 kg
Duration of exposure (per day)	>240 min
Technical conditions and measures at process level (source) to prevent release	Substitute manual procedures with automatic procedures where possible. Use closed systems or covered open systems. Use suction pumps. Transfer via closed circuit lines. Ensure that the transfer of materials is subject to containment measures or under suction ventilation. Adopt good standards of general ventilation. Natural ventilation comes from doors, windows. Controlled ventilation means art that is supplied from or extracted from an electrically powered ventilator. Avoid spray, Reduction of volumes of liquid in wells to prevent/collect any possible spills.
Organizational measures to prevent /limit releases, dispersion and exposure	Workers present in areas of risk or involved in working processes that are at risk must be training to: a) avoid working without protection of the respiratory tract, b) understand the corrosive properties and, particularly the effects of inhalation, c) follow the safety instructions given by the employer.  The employer must make sure that the required PPE are available and are used according to their relative instructions. Substitute, where possible, manual processes with automatic processes and/or closed circuits. This would prevent the formation of fogs and aerosols that are irritants and potential sprays. Check the potential exposure using measures such as closed or autonomous systems, well equipped and maintained equipment and a plentiful general ventilation, discharge the systems and empty the pipelines before opening the installation. As far as possible, empty and rinse the equipment before carrying out any maintenance work. In case there is potential for exposure, and not the tundamental methods to minimize the exposure. Ensure that the required personal protective equipment is available. Collect the spilled material and dispose of the waste according to the precautions foreseen by the law, Monitor the effectiveness of the control measures. Ensure that the control measures are regularly checked and respected. On-site checks to make sure that the fix managements measures are used in the correct way and that the operative conditions are followed.
Conditions and measures related to personal protection, hygiene and health evaluation	In the event of the formation of powders or aerosols use PPE to protect the respiratory tract with the appropriate iflier (P2), Wear suitable EN374 approved gloves. Wear safety glasses with side protection according to EN 166. Wear suitable protective clothing, aprons, shields and overalls. In the event of risk of spray: wear rubber boots.
Exposure estimation and reference to its source	

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Guidance to DU to evaluate whether he works inside the boundaries set by the ES	PROC2 Liquid Inhalation 0,23 mg/m³ 1 mg/m³ 0,23	Contributing Specific conditions Method of exposure Level of exposure PNEC RCR	Workers (ECETOC TRA model)	The substance dissociates on contact with water, the only effect is an increase in pH, therefore after having passed through the water treatment plant the exposure is to be considered negligible and without any risk.
Guidance to DU to evaluate whether he works inside the boundaries set by the ES  If no measured data is available, the downstream user can use scaling instrument such as ECETOC TRA.  If no measured data is available, the downstream user can use scaling instrument such as ECETOC TRA.  Important note: showing a safe use, with respect to the setlanted exposure with DNEL in the long term, the acute DNEL is also covered (according to guide R.14, it is possible to deduce the acute levels of exposure by multiplying the estimate long term exposure by a factor of 2).	0,23	RCR		nly effect is an increase in atment plant the exposure

The exposure by inhalation is estimated with ECETOC TRA. For the scaling see: <a href="http://ecetoc.org/tra.">http://ecetoc.org/tra.</a>.

Only correctly trained personnel should use scaling methods to see if the operative conditions and risk management are within the limits indicated in the exposure scenario.

Additional advice for good practice

It is assumed that adequate standards for hygiene in the workplace are adopted.

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