Safety Data Sheet

Date of issue: 07/04/2017 Revision date: 07/04/2017 according to Regulation (EU) 2015/830 Version: 2.1

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

Product form Trade name Det&Rinse Mixtures

Product code : DB1016A0

Relevant identified uses

Relevant identified uses of the su

tance or mixture and uses advised aga

Main use category Industrial/Professional use spec Professional Detergents

Use of the substance/mixture Oven cleaners

Uses advised against

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

Details of the supp lier of the safety data sheet

UNOX SpA

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National Poisons Information Service (NPIS)

Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification of the substance or mixture **SECTION 2: Hazards identification**

Serious eye damage/eye irritation, Category 1 H318 Skin corrosion/irritation, Category 1A Corrosive to metals, Category 1 H314

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)



GHS05

Danger potassium hydroxide, caustic potash

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

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

Precautionary statements (CLP) Hazard statements (CLP) Signal word (CLP)

Hazardous ingredients

07/04/2017 EN (English) 1/13

Det&Rinse

Safety Data Sheet

according to Regulation (EU) 2015/830

P305+P336+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue trinsing P310-Immediately call a P015ON CENTER or doctor P303+P353-IF ON SKIN (or hair): Take off immediately all contaminated ciothing.

Rinse skin with water/shower

No additional information available

SECTION 3: Composition/information on ingredients

Not applicable

Mixture

Name	Product identifier	%	Classification according to
			Regulation (EC) No. 1272/2008 [CLP]
Dipropylene glycol monomethyl ether-	(CAS No) 34590-94-8	1 - 5	Not classified
substance with a Community workplace exposure limit	(EC no) 252-104-2		
	(REACH-no) 01-2119450011-60		
potassium hydroxide, caustic potash	(CAS No) 1310-58-3	1-4.5	Met. Corr. 1, H290
	(EC no) 215-181-3		Acute Tox. 4 (Oral), H302
	(EC index no) 019-002-00-8		Skin Corr. 1A, H314
	(REACH-no) 01-2119487136-33		
Alcohols, C12-14, ethoxylated propoxylated	(CAS No) 68439-51-0	1-3	Eye Irrit. 2, H319
	(EC no) 614-484-1		Aquatic Acute 1, H400
	(REACH-no) Not available		Aquatic Chronic 3, H412
D-Glucopyranose, oligomeric, decyl octyl glycosides	(CAS No) 68515-73-1	1-3	Eye Dam. 1, H318
	(EC no) 500-220-1		Aquatic Chronic 3, H412
	(REACH-no) 01-2119488530-36		
Specific concentration limits:			
Name	Product identifier	Specific cond	Specific concentration limits
potassium hydroxide, caustic potash	(CAS No) 1310-58-3	(0.5 = <c 2)="" <="" s<="" td=""><td>0.5 =<c 2)="" 2,="" <="" h315<="" irrit.="" skin="" td=""></c></td></c>	0.5 = <c 2)="" 2,="" <="" h315<="" irrit.="" skin="" td=""></c>
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	(REACH-no) 01-2119487136-33	(C >= 5) Skin Corr. 1A, H314	orr. 1A. H314

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of 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 attention immediately.
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.
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person. Do not induce vomiting.
4.2. Most important symptoms and effects, both acute and delayed	s, both acute and delayed

Symptoms/injuries after inhalation	: Corrosive to respiratory system. Causes burns.
Symptoms/injuries after skin contact	: Causes severe burns.
	: Causes serious eye damage. Corneal opacity. Iris lesions.

Indication of any imi

: Severe irritation or burns to the mouth, throat, oesophagus, and stomach

Symptoms/injuries after ingestion

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

SECTION 5: Firefighting measures

07/04/2017

Suitable extinguishing media : Water fog. carbon dioxide (CO2), dry chemical powder, foam

2/13

Det&RinseSafety Data Sheet

according to Regulation (EU) 2015/830

Unstable engagishing model Exposen haards string from the substance or mature. Exposen haard		
Special nazards arising from the substate hazard posion hazard posion hazard products in case of saradous decomposition products in case of efighting instructions of the endipting instructions of the information of the inf		Do not use water jet:
posion hazard posion hazard advice for firefighters cautionary measures fire efighting instructions ofective equipment for firefighters ther information Personal precautions, protective equipment 1. For non-emergency personnel ofective equipment 1. For ron-emergency personnel ofective equipment 1. For emergency responders dective equipment mergency procedures conditions in Methods and material for containment autor containment in regency procedures Environmental precautions id release to the environment. Avoid sub-soil pend in. Methods for deaning up errontainment containment containment containment conditions for safe handling ecautions for safe handling ecautions for safe handling ecautions for safe handling conditions on safe storage, including are chinical measures Conditions on mixed storage precautions on mixed storage at and ignition sources shibitions on mixed storage chaging materials crage area ckaging materials	5.2. Special nazards arising from the substar	On huming: release of (highly) toyin gases (vanours
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Personal precautions, protective equipment 1. For non-emergency personnel dective equipment 2. For emergency responders clective equipment clective cleaning up clective cleaning clection. Methods and material for containment clective cleaning up clective cleaning clection. Methods and material for containment clective cleaning clective cleaning clective cleaning clective. Containment cleaning cleaning clective cleaning clective cleaning clective cleaning clective cleaning c		Do not allow run-off from fire fighting to enter drains or water courses.
Personal precautions, protective equipment 1. For non-emergency personnel otective equipment : nergency procedures 2. For emergency responders dective equipment id release to the environment. Avoid sub-soil pene n. Methods and material for containment ar r containment r containment Reference to other sections ection: Reference to other sections disposal of residues refer to section 13: Disposal ectori. CONDIT: Handling and storage Percautions for safe handling ecautions for safe handling ecautions for safe storage, including ar chincal measures giene meterials orage conditions on mixed storage in the process on the process of the process	SECTION 6: Accidental release measure	is a second seco
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certive equipment Environmental precautions Id release to the environment. Avoid sub-soil pene n. Methods and material for containment air containment r containment r containment er information Reference to other sections disposal of residues refer to section 13 : Disposal ection*. CTION 7: Handling and storage Precautions for safe handling ecautions for safe handling ecautions for safe storage, including are conditions compatible materials orage conditions on mixed storage orage area ckaging materials		Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so. Spilied material may present a slipping hazard.
otective equipment Environmental precautions id release to the environment. Avoid sub-soil pene n. Methods and material for containment air containment r	For emergency responders	
Environmental precautions id release to the environment. Avoid sub-soil pene n. Methods and material for containment air containment r containment r containment r containment r containment r containment Reference to other sections disposal of residues refer to section 13 : Disposal ection". CTION 7: Handling and storage Precautions for safe handling ecautions for safe handling ecautions for safe storage, including are chnical measures conditions compatible materials crage conditions on mixed storage crage area ckaging materials		Wear suitable protective clothing, gloves and eyelface protection. Do not attempt to take action without suitable protective equipment. In presence of product's residue, total impervious protective suits, gloves, and boots must be worn.
Environmental precautions Id release to the environment. Avoid sub-soil pena In. Methods and material for containment at r containment ethods for deaning up The information Reference to other sections Gisposal of residues refer to section 13: Disposal ection. CITION 7: Handling and storage Precautions for safe handling ecautions for safe handling contitions for safe storage, including are chnical measures chnical		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.
Methods and material for containment and conta	3.2. Environmental precautions Avoid release to the environment. Avoid sub-soil pend Irain.	gration. Relevant water authorities should be notified of any large spillage to water course or
shods for cleaning up ther information Reference to other sections disposal of residues refer to section 13: Disposal ection". CTION 7: Handling and storage Precautions for safe handling ecautions for safe handling ecautions for safe storage, including an achinical measures orage conditions compatible materials orage temperature aat and ignition sources ohibitions on mixed storage orage area ackaging materials ::	Methods and material for containment a	nd cleaning up
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ther information Reference to other sections disposal of residues refer to section 13: Disposal tection". CTION 7: Handling and storage Precautions for safe handling ecautions for safe handling ecautions for safe handling Conditions for safe storage, including an achical measures orage conditions compatible materials co		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 ocntaminated area with large amounts of water.
Reference to other sections disposal of residues refer to section 13: Disposal tection". CTION 7: Handling and storage Precautions for safe handling ecautions for safe handling ecautions for safe storage, including are conditions for safe storage, including are conditions crage conditions compatible materials compatible materials orage temperature att and ignition sources onbittions on mixed storage orage area ackaging materials		Do not allow uncontrolled discharge of product into the environment.
CTION 7: Handling and storage Precautions for safe handling ecautions for safe handling : Conditions for safe storage, including an exhinical measures orage conditions compatible materials orage temperature at and ignition sources ohibitions on mixed storage orage area ackaging materials :	.4. Reference to other sections or disposal of residues refer to section 13 : Disposal irotection".	considerations. For further information refer to section 8: "Exposure controls/personal
ecautions for safe handling Conditions for safe storage, including are chnical measures orage conditions compatible materials orage temperature at and ignition sources onbititions on mixed storage orage area ackaging materials	SECTION 7: Handling and storage 1. Precautions for safe handling	
Conditions for safe storage, including arechnical measures orage conditions compatible materials corrage temperature sat and ignition sources ohibitions on mixed storage crea carea		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
Gonditions for safe storage, including arechnical measures orage conditions compatible materials crage temperature at and ignition sources ohibitions on mixed storage crage area cxaging materials		formation of vapours.
Conditions for safe storage, including an exchnical measures orage conditions compatible materials corage temperature sat and ignition sources orbibitions on mixed storage area cakaging materials		Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work cothing should not be allowed out of the workplace.
itions :: materials :: tion sources :: tion sources :: n mixed storage :: aterials ::	Conditions for safe storage, including an	y incompatibilities
materials		Store tightly closed in a dry cool and well-ventilated place. Keep out of direct sunlight
erature tion sources n mixed storage	Incompatible materials :	Acids, alkali, oxidizing agents, Flammable materials, Peroxides,
tion sources : : : : : : : : : : : : : : : : : : :		5-40°C
n mixed storage : : aterials : :		Keep away from open flames, hot surfaces and sources of ignition.
aterials ::	Prohibitions on mixed storage :	Keep away from food, drink and animal feeding stuffs.
	aterials	Ose explosion-proortigituing equipment. Stainless steel Polyvinvichloride (PVC) Polyethylene Teffon Neoprene Hissuitable material:
		Statilizes steet, Folywilytollionide (FVO), Folyetilyteite, Teiloff, Recipierte, ofisuation inaterial. Do not use aluminum, tin or zinc containers, Copper, Lead, Tin (inorganic compounds).

Det&Rinse Safety Data Sheet

according to Regulation (EU) 2015/830

7.3. Specific end use(s) No additional information available

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

IOELV TWA (mg/m²) a	Dipropylene grycor me	Dipropylene glycol monomethyl ether- (34590-94-8)	
IDELV TVVA (ppm) MAK (mg/m²) MAK (mg/m²) MAK (ppm) MAK (EU	IOELV TWA (mg/m³)	308 mg/m³
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Republic Expoziční limity (PEL) (mg/m²) rk Grænseværdie (langvarig) (mg/m²) rk Grænseværdie (langvarig) (ppm) OEL TWA (mg/m²) OEL TWA (ppm) HTP-arvo (8h) (mg/m²) VME (mg/m²) VME (mg/m²) VME (mg/m²) TRGS 900 Occupational exposure limit value (mg/m²) rr OEL TWA (mg/m²) OEL STEL (mg/m²) OEL STEL (mg/m²) OEL STEL (mg/m²) OEL (15 min ref) (mg/m²) OEL (15 min ref) (mg/m²) OEL (15 min ref) (mg/m²) OEL TWA (ppm) OEL (15 min ref) (mg/m²) OEL TWA (ppm)	Cyprus	OEL TWA (ppm)	50 ppm
Grænseværdie (langvarig) (mg/m²) Grænseværdie (langvarig) (ppm) OEL TWA (mg/m²) HTP-arvo (8h) (mg/m²) VME (mg/m²) VME (mg/m²) VME (ppm) TRGS 900 Occupational exposure limit value (mg/m²) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL STEL (ng/m²) OEL STEL (ppm) AK-érték CK-érték CK-érték CK-érték CK-érték CK-érték CR-érték (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) FRV (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) TPRV (mg/m²) TPRV (mg/m²) TPRV (mg/m²) TPRV (mg/m²)	Czech Republic	Expoziční limity (PEL) (mg/m³)	270 mg/m³
Grænseværdie (langvarig) (ppm) OEL TWA (mg/m²) HTP-arvo (8h) (mg/m²) VME (ppm) VME (ppm) TRGS 900 Occupational exposure limit value (mg/m²) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL STEL (mg/m²) OEL STEL (ng/m²) OEL STEL (ppm) AK-érték CK-érték	Denmark	Grænseværdie (langvarig) (mg/m³)	309 mg/m³
OEL TWA (mg/m²) OEL TWA (ppm) HTP-arvo (8h) (mg/m²) VME (mg/m²) VME (ppm) TRGS 900 Occupational exposure limit value (mg/m²) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL STEL (ng/m²) OEL STEL (ppm) AK-énék CK-énék	Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
OEL TWA (ppm) HTP-arvo (8h) (mg/m²) HTP-arvo (8h) (ppm) VME (mg/m²) VME (ppm) TRGS 900 Occupational exposure limit value (mg/m²) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL STEL (ng/m²) OEL STEL (ppm) AK-énék CK-énék TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (ppm) TPRV (mg/m²) TPRV (mg/m²) TPRV (ppm) TPRV (ppm) TPRV (ppm)	Estonia	OEL TWA (mg/m³)	308 mg/m³
HTP-arvo (8h) (mg/m²) HTP-arvo (8h) (ppm) VME (mg/m²) VME (ppm) TRGS 900 Occupational exposure limit value (mg/m²) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL STEL (ng/m²) OEL STEL (ppm) AK-érték CK-érték TPRV (mg/m²) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) TPRV (mg/m²) TPRV (ppm) TPRV (ppm) TPRV (ppm)	Estonia	OEL TWA (ppm)	50 ppm
HTP-arvo (8h) (ppm) VME (mg/m²) VME (ppm) TRGS 900 Occupational exposure limit value (mg/m²) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL STEL (ng/m²) OEL STEL (ppm) AK-énék CK-énék CK-énék CK-énék CK-énék CK-énék CK-énék CK-énék OEL (15 min ref) (mg/m²) OEL (15 min ref) (ppm) OEL (15 min ref) (ppm) OEL TWA (mg/m²) OEL TWA (ppm) OEL TWA (ppm) TPRV (mg/m²) IPRV (mg/m²) TPRV (ppm) TPRV (ppm) TPRV (ppm) TPRV (ppm) TPRV (ppm)	Finland	HTP-arvo (8h) (mg/m³)	310 mg/m³
VME (ppm) VME (ppm) VME (ppm) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL STEL (ng/m²) OEL STEL (ppm) AK-érték CK-érték CK-érté	Finland	HTP-arvo (8h) (ppm)	50 ppm
VME (ppm) TRGS 900 Occupational exposure limit value (mg/m²) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (ppm) OEL STEL (mg/m²) OEL STEL (mg/m²) OEL STEL (ppm) AK-érték CK-érték CK-érték CK-érték CK-érték CK-érték CK-érték OEL (8 hours ref) (mg/m²) OEL (15 min ref) (ppm) OEL (15 min ref) (ppm) OEL TWA (mg/m²) OEL TWA (ppm) OEL TWA (ppm) TPRV (mg/m²) TPRV (mg/m²) TPRV (ppm) TPRV (ppm) TPRV (ppm) TPRV (ppm)	France	VME (mg/m³)	308 mg/m³ (restrictive limit)
TRGS 900 Occupational exposure limit value (mg/m²) TRGS 900 Occupational exposure limit value (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (ppm) OEL TWA (ppm) OEL STEL (mg/m²) OEL STEL (mg/m²) OEL STEL (ppm) AK-énék CK-énék CK-énék CK-énék CK-énék OEL (8 hours ref) (ppm) OEL (15 min ref) (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) TPRV (mg/m²) IPRV (mg/m²) TPRV (ppm) TPRV (ppm) TPRV (ppm) TPRV (ppm)	France	VME (ppm)	50 ppm (restrictive limit)
TRGS 900 Occupational exposure limit value (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL STEL (mg/m²) OEL STEL (mg/m²) OEL STEL (ppm) AK-6rték CK-6rték CK-6rték OEL (8 hours ref) (mg/m²) OEL (15 min ref) (mg/m³) OEL (15 min ref) (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) FPRV (mg/m²) IPRV (mg/m²) IPRV (ppm) TPRV (ppm) TPRV (ppm) TPRV (ppm)	Germany	TRGS 900 Occupational exposure limit value (mg/m³)	310 mg/m³ (isomer mixture)
OEL TWA (mg/m²) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL STEL (mg/m²) OEL STEL (mg/m²) OEL STEL (mg/m²) OEL (8 hours ref) (mg/m²) OEL (15 min ref) (mg/m³) OEL (15 min ref) (ppm) OEL TWA (mg/m²) OEL TWA (ppm)	Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm (isomer mixture)
OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL STEL (mg/m²) OEL STEL (mg/m²) OEL STEL (ppm) AK-érték CK-érték CK-érték OEL (8 hours ref) (mg/m²) OEL (15 min ref) (ppm) OEL (15 min ref) (ppm) OEL TWA (mg/m²) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) TPRV (mg/m²) TPRV (mg/m²) TPRV (ppm)	Gibraltar	OEL TWA (mg/m³)	308 mg/m³
OEL IWA (ng/m²) OEL STEL (ng/m²) OEL STEL (ng/m²) OEL STEL (ppm) AK-énék CK-énék CK-énék OEL (8 hours ref) (ng/m²) OEL (15 min ref) (ppm) OEL (15 min ref) (ppm) OEL TWA (ng/m²) OEL TWA (ng/m²) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) TPRV (ng/m²) IPRV (ng/m²) TPRV (ppm)	Gibraltar	OEL TWA (ppm)	50 ppm
OEL TWA (ppm) OEL STEL (ppm) AK-6rték CK-6rték CK-6rték CK-6rték OEL (8 hours ref) (mg/m²) OEL (8 hours ref) (ppm) OEL (15 min ref) (mg/m³) OEL (15 min ref) (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) TPRV (mg/m²) TPRV (mg/m²) TPRV (ppm) TPRV (ppm)	Greece	OEL TWA (mg/m³)	600 mg/m³
OEL STEL (ppm) AK-érték CK-érték CK-érték CK-érték OEL (8 hours ref) (mg/m²) OEL (15 min ref) (mg/m3) OEL (15 min ref) (ppm) OEL (15 min ref) (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) FPRV (mg/m²) IPRV (mg/m²) TPRV (ppm) TPRV (ppm) TPRV (ppm)	Croco	OEI STEI (ma/m²)	000 mg/m³
AK-ériék CK-ériék CK-ériék OEL (8 hours ref) (mg/m²) OEL (8 hours ref) (ppm) OEL (15 min ref) (mg/m³) OEL (15 min ref) (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) FPRV (mg/m²) IPRV (mg/m²) TPRV (ppm) TPRV (ppm)	Greece	OEL STEL (ng/m²)	900 mg/m²
OEL (8 hours ref) (mg/m³) OEL (8 hours ref) (ppm) OEL (8 hours ref) (ppm) OEL (15 min ref) (mg/m3) OEL (15 min ref) (ppm) OEL TWA (mg/m³) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) FPRV (mg/m³) IPRV (mg/m³) TPRV (ppm) TPRV (ppm)	Hungary	AK-érték	308 mg/m³
OEL (8 hours ref) (mg/m²)	Hungary	OK-énék	308 mg/m² (Substances with European indicativ. (9694/EC, 2009/161, 2006/15/EC, 2009/161, which currently has no peak limit concentration, these cases, Annex 3.1, should be used exercise.
OEL (8 hours ref) (ppm)	Ireland	OEL (8 hours ref) (mg/m³)	308 mg/m³
OEL (15 min ref) (mg/m3)	Ireland	OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (ppm)	Ireland	OEL (15 min ref) (mg/m3)	924 mg/m³ (calculated)
OEL TWA (mg/m³) OEL TWA (ppm) OEL TWA (mg/m²) OEL TWA (mg/m²) OEL TWA (ppm) IPRV (mg/m²) IPRV (mg/m²) IPRV (mg/m²) TPRV (ppm) TPRV (ppm) TPRV (ppm) TPRV (ppm)	Ireland	OEL (15 min ref) (ppm)	150 ppm (calculated)
OEL TWA (ppm) OEL TWA (mg/m³) OEL TWA (mg/m³) OEL TWA (ppm) IPRV (mg/m³) IPRV (mg/m²) TPRV (mg/m²) TPRV (ppm) TPRV (ppm) TPRV (ppm)	Italy	OEL TWA (mg/m³)	308 mg/m³
OEL TWA (mg/m³) OEL TWA (ppm) nia IPRV (mg/m²) nia IPRV (mg/m²) TPRV (mg/m²) TPRV (ppm) TPRV (ppm)	ltaly	OEL TWA (ppm)	50 ppm
OEL TWA (ppm) nia	Latvia	OEL TWA (mg/m³)	308 mg/m³
nia IPRV (mg/m²) nia IPRV (ppm) nia TPRV (mg/m²) nia TPRV (ppm)	Latvia	OEL TWA (ppm)	50 ppm
nia IPRV (ppm) nia TPRV (mg/m²) nia TPRV (ppm)	Lithuania	IPRV (mg/m³)	300 mg/m³
nia TPRV (mg/m²) TPRV (ppm) OCT TVV (~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Lithuania	IPRV (ppm)	50 ppm
nia TPRV (ppm)	Lithuania	TPRV (mg/m³)	450 mg/m³
OFI TAIA (max/m3)	Lithuania	TPRV (ppm)	75 ppm
	Malta	OEI TWA (mg/m³)	308 mg/m³

07/04/2017 EN (English) 4/13

07/04/2017

EN (English)

3/13

Safety Data Sheet

according to Regulation (EU) 2015/830

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)
150 ppm	VECD (ppm)	Canada (Quebec)
909 mg/m³	VECD (mg/m³)	Canada (Quebec)
50 ppm	TWA (ppm)	Australia
308 mg/m³	TWA (mg/m³)	Australia
50 ppm	VLE (ppm)	Switzerland
300 mg/m³	VI E (mg/m³)	Switzerland
50 ppm	VME (ngm)	Switzerland
7		Come
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	WEI 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 (ma/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 mg/m³	OEL TWA (mg/m³)	Romania
150 ppm	OEL STEL (ppm)	Portugal
50 ppm (indicative limit value)	OEL TWA (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/m³)	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
	ethyl ether- (34590-94-8)	Dipropylene glycol monomethyl ether- (34590-94-8)

07/04/2017 EN (English) 5/13

07/04/2017

EN (English)

6/13

Det&Rinse

Safety Data Sheet

according to Regulation (EU) 2015/830

8.2. Exposure controls Appropriate engineering controls:

Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

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. Personal protective equipment:

Materials for protective clothing:

Rubbers. PVC (Polyvinyl chloride). Natural fibres (e.g. cotton). EN ISO 20344

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 (ntrile-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). Wear work clothes with long sleeves. EN ISO 20344

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	perties
9.1. Information on basic physical and chemical properties	nical properties
Physical state	: Liquid
Colour	: strawyellow.
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	: No data available
Flash point	: > 100 °C
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	: 4.6%

Safety Data Sheet

according to Regulation (EU) 2015/830

Stable under normal conditions. Pyrolysis products, toxic On combustion or on thermal decomposition (pyrolysis) releases : Nitrogen oxides (NOx). Carbon dioxide (CO2). Phosphorus oxides. Sulfur oxides Acids. Oxidizing agent. Peroxides. Flammable materials Keep away from acids. Oxidizing agent. Peroxides. None under normal conditions. Reacts exothermically with (some) acids. Reacts with (strong) oxidizers. **SECTION 10: Stability and reactivity** SECTION 11: Toxicological information SECTION 12: Ecological information STOT-single exposure STOT-repeated exposure Reproductive toxicity Carcinogenicity Germ cell mutagenicity Serious eye damage/irritation Skin corrosion/irritation Aspiration hazard Respiratory or skin sensitisation Acute toxicity EC50 72h algae (1) EC50 Daphnia 1 D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) EC50 72h algae (1) EC50 72h algae (2) EC50 other aquatic organisms 1 EC50 Daphnia 1 D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1) LC50 fish 1 Alcohols, C12-14, ethoxylated propoxylated (68439-51-0) potassium hydroxide, caustic potash (1310-58-3) LD50 dermal rat Dipropylene glycol monomethyl ether- (34590-94-8) LD50 oral rat LD50 oral rat potassium hydroxide, caustic potash (1310-58-3) LC50 fish 1 LD50 oral rat LD50 dermal rat Alcohols, C12-14, ethoxylated propoxylated (68439-51-0) LD50 oral rat Toxicity ation on toxicological effects > 10000 mg/l Bacteria toxicity > 13000 mg/kg Not classified > 2000 mg/kg > 100 mg/l Brachydario rerio 1 - 10 mg/l (OECD 201 method) 0.1 - 1 mg/l (OECD 201 method) 1 - 10 (OECD 202 method) 80 mg/l Gambusia affinis Not classified Causes severe skin burns and eye damage. > 2000 mg/kg (OECD 402 method) > 2000 mg/kg (OECD 423 method) 333 mg/kg 10 - 100 mg/l Scenedesmus subspicatus 10 - 100 mg/l 1 - 10 mg/l (OECD 203 method) Not classified Not classified Not classified Not classified Not classified pH: 14 at 20°C Causes serious eye damage. pH: 14 at 20°C 5400 mg/kg Not classified

Det&Rinse

Safety Data Sheet

according to Regulation (EU) 2015/830

D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)	/cosides (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

potassium hydroxide, caustic potash (1310-58-3)	8-3)
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Dipropylene glycol monomethyl ether- (34590-94-8)	0-94-8)
Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 day

Pioacoaniaiante potentiai	
Det&Rinse	
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	
Ecology - soil	Expected to be highly mobile in soil.

Results of PBT and vPvB assess

Det&Rinse	
Results of PBT assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB.

No additional information available

FION 13: Disposal considerat

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

HP Code Waste disposal recommendations : 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 : Dispose of this material and its container at hazardous or special waste collection point

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1814	1814	1814	1814	1814
14.2. UN proper shipping name	ng name			
POTASSIUM POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	Potassium hydroxide solution	POTASSIUM POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE
Transport document description	iption			
UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III, (E)	UN 1814 POTASSIUM HYDROXIDE SOLUTION, hydroxide solution, 8, III.	UN 1814 Potassium hydroxide solution, 8, III	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III	UN 1814 POTASSIUM HYDROXIDE SOLUTIOI 8, III
8, III, (E)	8, =		8, =	,8, =

07/04/2017 EN (English) 8/13

7/13

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
14.3. Transport hazar	d class(es)			
8	∞	00	8	00
			•	
14.4. Packing group				
14.5. Environmental hazards	nazards		٠	
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment: No
	No	No supplementary information available	0.10 610	

14.6. Special precautions for user

PCA packing instructions (IATA) EmS-No. (Spillage) EmS-No. (Fire) Limited quantities (ADR) Overland transport PCA max net quantity (IATA) PCA Limited quantities (IATA) Stowage category (IMDG) Limited quantities (IMDG) Transport category (ADR) Tunnel restriction code (ADR) Air transport Transport by sea . F-A Y841 852 5L 856 ≻ πωб

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

CAO packing instructions (IATA)

Not applicable

SECTION 15: Regulatory information Safety, health and environmental regulations egislation specific for the substance or mixture

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

Regulation EC 648/2004 Seveso Information : Contains: 5% - 15% phosphates Contains: < 5% anionic surfactants, amphoteric surfactants, non-ionic surfactants 4.6%

15.1.2. National regulations

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV VwVwS Annex reference Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex

SZW-lijst van mutagene stoffen SZW-lijst van kankerverwekkende stoffen

Netherlands

07/04/2017

None of the components are listed

: None of the components are listed

EN (English)

9/13

Det&Rinse

Safety Data Sheet

according to Regulation (EU) 2015/830

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

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

D-Glucopyranose, oligomeric, decyl octyl glycosides potassium hydroxide, caustic potash

Abbreviations and acronyms:

י מטו כי ומנוסו וס מוו	a worly no.
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

for the use of this product.

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, it is user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H290	May be corrosive to metals
Н302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

07/04/2017 10/13

Det&Rinse Safety Data Sheet

according to Regulation (EU) 2015/830

H319	Causes serious eye irritation	eye irritation
H400	Very toxic to aquatic life	uatic life
H412	Harmful to aqu	Harmful to aquatic life with long lasting effects
Classification and procedure used to	derive the classifi	Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Met. Corr. 1	H290	Calculation method
Skin Corr. 1A	H314	On basis of test data
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

07/04/2017 EN (English) 11/13

Det&Rinse Safety Data Sheet

according to Regulation (EU) 2015/830

EXPOSURE SCENARIO POTASSIUM HYDROXIDE

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 according to their relative instructions. Substitute, where possible, manual processes and/or closed circuits. This would prevent the formation of fogs and aerosols that are irritants and potential sprays. Check the formation and exposure using measures such as closed or autonomous systems, we potential exposure using measures such as closed or autonomous systems, we potential exposure and empty the pipelines before opening the installation. 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07/04/2017 EN (English) 12/13

Workers (ECETOC TRA model)

Det&Rinse Safety Data Sheet

according to Regulation (EU) 2015/830

EN (English) 13/13

07/04/2017