

Dated 16/01/2023 Printed on 16/01/2023

Page n. 1/16 Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

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

DB1016A0 DET&RINSE Product name

PE00-G05A-G008-YH6D UFI:

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Oven cleaner (EUPCS: PC-CLN-10.4)

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

Unox S.p.A.

Full address Via Majorana, 22 District and Country 35010 Cadoneghe (Padova)

tel. +39 049 86 57 511 fax +39 049 86 57 555

e-mail address of the competent person

responsible for the Safety Data Sheet det.rinse@unox.com

1.4. Emergency telephone number

For urgent inquiries refer to Verisk-3F

Tel. (+)1-760-476-3961 Tel. (+)0-800-680-0425 (UK)

Access code: 334577

24h/24h

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classification and indication:

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

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

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



UNOX S.p.A.

Dated 16/01/2023 Printed on 16/01/2023 Page n. 2/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P264 Wash hands thoroughly after handling.

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

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

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

P310 Immediately call a POISON CENTER.

POTASSIUM HYDROXIDE Contains:

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

Less than 5% anionic surfactants, amphoteric surfactants, non-ionic surfactants

5% or over but less than phosphates

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)

DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS 34590-94-8 1 ≤ x < 5 Substance with a community workplace exposure limit.

EC 252-104-2 INDEX -

REACH Reg. 01-2119450011-60-XXXX



Dated 16/01/2023 Printed on 16/01/2023 Page n. 3/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

POTASSIUM HYDROXIDE

INDEX 019-002-00-8

CAS 1310-58-3 1 ≤ x < 4,5 Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-181-3 Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eye Dam. 1 H318: ≥

2%, Eye Irrit. 2 H319: ≥ 0,5% LD50 Oral: 333 mg/kg

REACH Reg. 01-2119487136-33-XXXX

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

CAS 68515-73-1 Eve Dam. 1 H318

EC 500-220-1 INDEY -

REACH Reg. 01-2119488530-36-XXXX

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

CAS 68439-51-0 $1 \le x \le 3$ Aquatic Chronic 3 H412

EC 931-986-9 INDEX -REACH Reg. *

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

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



UNOX S.p.A.

Dated 16/01/2023 Printed on 16/01/2023 Page n 4/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

None in particular.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Send away individuals who are not suitably equipped. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Use breathing equipment if nowders are released into the air

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

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

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details. The product is alkaline and may generate hydrogen gas if it comes in contact with metals such as aluminium zinc and tin

The hydrogen gas developed may cause combustion when the product is transferred to a metal container made from one of the metals indicated above, or which has been in contact with the same for an extended period of time.



Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023 Page n. 5/16 Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

If the hydrogen gas develops in a closed space, there may be a risk of explosion.

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

Storage class TRGS 510 (Germany): 8A

7.3. Specific end use(s)

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

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 65
FSP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/83/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξγόνους 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 exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutadénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR EU	United Kingdom OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020) Directive (EU) 2022/431; Directive (EU) 2019/130; 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 2006/15/EC; Directive 2006/EC; Directive 2006/EC; Directive 2006/EC; Directive 2006/EC;
	TLV-ACGIH	ACGIH 2021

DIPROPYLENE GLYCOL MONOMETHYL ETHER

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



UNOX S.p.A.

Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023 Page n. 6/16 Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

VLE	PRT	308	50		SKIN	
NDS/NDSCh	POL	240		480		
TLV	ROU	308	50		SKIN	
MV	SVN	308	50		SKIN	
WEL	GBR	308	50		SKIN	
OEL	EU	308	50		SKIN	
TLV-ACGIH		606	100	909 (C)	150 (C)	
Predicted no-effect cond	centration - PNEC					
Normal value in fresh wa	ater			19	mg/l	
Normal value in marine	water			1,9	mg/l	
Normal value for fresh w	vater 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 mi	croorganisms			4168	mgl	
Normal value for the terr	restrial compartment			2,74	mg/kg	
Health - Derived no.	offect level - DNEI	/ DMEI				

Health - Derived no-effect level - DNEL / DMEL									
	Effects on				Effects on				
	consumers				workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic	
		· ·		systemic		systemic		systemic	
Inhalation			VND	37,2 mg/m3			VND	310 mg/m3	
Skin			VND	15 mg/kg/d			VND	65 mg/kg/d	

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	2					
VLA	ESP			2			
VLEP	FRA			2			
TLV	GRC	2		2			
GVI/KGVI	HRV			2			
WEL	GBR			2			

Health - Derived no-effect	level - DNEL / DI	MEL						
	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
Inhalation			1 mg/m3	VND			1 mg/m3	VND

redicted no-effect concentration - PNEC			
Normal value in fresh water	0,1	mg/l	
Normal value in marine water	0,01	mg/l	
Normal value for fresh water sediment	0,487	mg/kg	
Normal value for marine water sediment	0,048	mg/kg	
Normal value for water, intermittent release	0,27	mg/l	



Dated 16/01/2023 Printed on 16/01/2023 Page n. 7/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

Normal value of STP microor	560	mç	g/l					
Normal value for the terrestria	al compartment			0,654	mç	g/kg		
Health - Derived no-effe	ct level - DNEL / [OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			37,5 mg/kg/d	VND				
Inhalation			VND	420 mg/m3				
Skin			VND	357000 mg/kg/d			VND	595000 mg/kg/d

Leaend:

(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), polyvinylchloride (0,5 mm).

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type A filter combined with a type P2 filter should be worn (see standard EN 14387).

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	straw yellow	
Odour	characteristic	
Odour threshold	not applicable	Reason for missing data:Not applicable to



UNOX S.p.A.

Dated 16/01/2023 Printed on 16/01/2023 Page n. 8/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

Melting point / freezing point not determined

Initial boiling point > 100 °C

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. > 60 °C

Auto-ignition temperature not available Decomposition temperature not available

Kinematic viscosity not available

Solubility soluble in water

Partition coefficient: n-octanol/water not applicable

Vapour pressure not available Density and/or relative density 1.10-1.25 Relative vapour density not available Particle characteristics not applicable Temperature: 20 °C

Reason for missing data: Not applicable to

Reason for missing data:no test available

mixtures.

9.2. Other information

Flash point

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 4,60 % VOC (volatile carbon) 2,61 %

not applicable. None of the substances contained has functional groups Explosive properties

associated with explosive properties Oxidising properties

not applicable. None of the contained substances has functional groups

associated with oxidizing properties.

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage

10.3. Possibility of hazardous reactions

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

POTASSIUM HYDROXIDE

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



Dated 16/01/2023 Printed on 16/01/2023 Page n. 9/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

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.

10.6. Hazardous decomposition products

If involved in a fire: carbon oxides, nitrogen oxides, sulfur oxides, potassium oxides, sodium oxides.

SECTION 11. Toxicological information

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

Inhalation (in case of aerosol formation only - use not recommended)

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 other adverse effects known

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)

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Dermal): LD50 (Oral):

LD50 (Oral):

9500 mg/kg rabbit

5660 mg/kg rat

POTASSIUM HYDROXIDE

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

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

LD50 (Dermal):

LD50 (Oral):

> 2000 mg/kg Coniglio, equivalente o simile a OECD linea guida 402 > 2000 mg/kg Ratto - OECD linea guida 423

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

LD50 (Oral): > 2000 mg/kg

SKIN CORROSION / IRRITATION

Corrosive for the skin



UNOX S.p.A.

Dated 16/01/2023 Printed on 16/01/2023 Page n. 10/16 Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

POTASSIUM HYDROXIDE

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

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

POTASSIUM HYDROXIDE

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

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

POTASSIUM HYDROXIDE

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

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available



Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023 Page n. 11/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

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

12.1. Toxicity

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LC50 - for Fish > 10000 mg/l/96h Pesce EC50 - for Crustacea 1919 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 969 mg/l/72h Alga

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

LC50 - for Fish > 100 mg/l/96h Brachidanio rerio EC50 - for Crustacea > 10 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 10 mg/l/72h Scenedesmus subspicatus

Chronic NOEC for Fish 1,8 mg/l Brachydanio rerio
Chronic NOEC for Crustacea 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 > 1 mg/l/72h Desmodesmus subspicatus
EC10 for Algae / Aquatic Plants > 0,1 mg/l/72h Desmodesmus subspicatus

POTASSIUM HYDROXIDE

LC50 - for Fish 80 mg/l/96h Gambusia affinis

12.2. Persistence and degradability

POTASSIUM HYDROXIDE

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Rapidly degradable

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

Rapidly degradable

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

Rapidly degradable

12.3. Bioaccumulative potential

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

Partition coefficient: n-octanol/water < 1,77

12.4. Mobility in soil

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



UNOX S.p.A.

Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023 Page n. 12/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

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

12.7. Other adverse effects

No other significant adverse effects for the environment are known.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

HP codes (intact product): HP8 - Corrosive

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1814

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO



Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023

Page n. 13/16 Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80

Limited Quantities: 5 L Tunnel restriction code: (E)

Packaging

Special provision: -EMS: F-A, S-B

Limited

Quantities: 5 L

Cargo: Maximum quantity: 60 L
Pass.: Maximum

quantity: 60 L instructions: 856 Maximum Packaging quantity: 5 L instructions: 852 A3, A803

Special provision:

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 1907/2006

Product

IMDG:

IATA:

Point 3

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:

None

Substances subject to the Rotterdam Convention:

None



UNOX S.p.A.

Revision n. 3 Dated 16/01/2023 Printed on 16/01/2023 Page n. 14/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

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.

15.2. Chemical safety assessment

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

POTASSIUM HYDROXIDE

D-GLUCOPYRANOSE, OLIGOMER C8-C10 GLUCOSIDE

SECTION 16. Other information

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

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1A Skin corrosion, category 1A

Skin Corr. 1B Skin corrosion, category 1B

Eye Dam. 1 Serious eye damage, category 1

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H290 May be corrosive to metals.
H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Use descriptor system:

ERC 8a Widespread use of non- reactive processing aid (no inclusion into or onto article, indoor)

LCS PW Widespread use by professional workers
PC 35 Washing and cleaning products

PROC 8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)



Dated 16/01/2023 Printed on 16/01/2023 Page n. 15/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

- 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
- INDEX: 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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 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) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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- 13. Regulation (EU) 2017/776 (X Atp. CLP)
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- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
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- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- FCHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

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.



UNOX S.p.A.

Dated 16/01/2023 Printed on 16/01/2023 Page n. 16/16

Replaced version:2 (Printed on: 05/04/2017)

DET & RINSE

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:

01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16