

	UNOX S.p.A.	Revision n.1 Dated 31/05/2024 Printed on 31/05/2024 Page n. 1/15 First compilation
	DET&RINSE SPEED	

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier
Code:
Product name
UFI:

DB1100A0 – DB1101A0
DET&RINSE SPEED
RV00-00MA-000R-973Q

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

Oven cleaner; detergent for cooking surfaces (EUPCS: PC-CLN-10.4).

Identified Uses	Industrial	Professional	Consumer
Detergent for ovens and cooking surfaces,	-	ERC: 8a, PROC: 10, 11, 13, 8a, PC: 35, LCS: PW.	-

Uses Advised Against
Any use other than those identified.

1.3. Details of the supplier of the safety data sheet
Name
Full address
District and Country

Unox S.p.A.
Via Majorana, 22
35010 Cadoneghe (Padova)
Italia

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-3E
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
Skin corrosion, category 1A
Serious eye damage, category 1

H290
H314
H318

May be corrosive to metals.
Causes severe skin burns and eye damage.
Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

H290
H314
EUH071

May be corrosive to metals.
Causes severe skin burns and eye damage.
Corrosive to the respiratory tract.

Precautionary statements:

P260
P305+P351+P338

P303+P361+P353
P280
P310
P264

Do not breathe mist/vapours/spray.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Wear protective gloves/ protective clothing / eye protection / face protection.
Immediately call a POISON CENTER.
Wash hands thoroughly after handling.

Contains: SODIUM HYDROXIDE

Ingredients (Regulation 648/2004)

Less than 5%

Phosphonates, Anionic surfactants, Cationic surfactants, Amphoteric surfactants, Non-ionic surfactants, Polycarboxylates

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)
SODIUM HYDROXIDE		
INDEX 011-002-00-6	5 ≤ x < 10	Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318
EC 215-185-5		Skin Corr. 1B H314: ≥ 2% - < 5%, Skin Corr. 1C H314: ≥ 2% - < 5%, Skin Irrit. 2 H315: ≥ 0,5% - < 2%, Eye Dam. 1 H318: ≥ 2%, Eye Irrit. 2 H319: ≥ 0,5% - < 2%
CAS 1310-73-2		
REACH Reg. 01-2119457892-27-XXXX		
TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE		
INDEX -	3 ≤ x < 5	Met. Corr. 1 H290
EC 257-573-7		
CAS 51981-21-6		

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REACH Reg. 01-2119493604-38-XXXX		
ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLATES (> 2,5 EO)		
INDEX -	1 ≤ x < 3 Aquatic Chronic 3 H412	
EC 931-986-9		
CAS 68439-51-0		
REACH Reg. *		
QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE		
INDEX	1 ≤ x < 3 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315	
EC -	LD50 Oral: >300 mg/kg	
CAS 1554325-20-0		
The full wording of hazard (H) phrases is given in section 16 of the sheet.		
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.		
Rescuer protection		
Information not available.		
4.2. Most important symptoms and effects, both acute and delayed		
See section 11.		
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.		
Means to have available in the workplace for specific and immediate treatment		
Eyewash.		
SECTION 5. Firefighting measures		
5.1. Extinguishing media		
SUITABLE EXTINGUISHING EQUIPMENT		
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.		
UNSUITABLE EXTINGUISHING EQUIPMENT		
None in particular.		
5.2. Special hazards arising from the substance or mixture		
HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE		
Do not breathe combustion products.		

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5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

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.

Frequency of use: up to 5 days / week.

Duration of use: up to 60 minutes / day.

Internal use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Store only in the original container. Store in a cool, dry place in tightly closed containers. Protect from heat and direct sunlight. Store at room temperature.

Storage class TRGS 510 (Germany): 8A

7.3. Specific end use(s)

Follow the instructions on the product labeled or on the information sheet.

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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.)

ESP

España

Límites de exposición profesional para agentes químicos en España 2023

FRA

France

Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021

GRC

Ελλάδα

Π.Δ. 26/2020 (ФЕК 50/Α΄ 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/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 μεταλλαξιγόνους παράγοντες κατά την εργασία΄΄»

HRV

Hrvatska

Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)

ITA

Italia

Decreto Legislativo 9 Aprile 2008, n.81

GBR

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

EU

OEL EU

Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH

ACGIH 2023

SODIUM HYDROXIDE

Threshold Limit Value

Type

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

TLV-ACGIH

2 (C)

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure

Acute local

Acute systemic

Chronic local

Chronic systemic

Acute local

Acute systemic

Chronic local

Chronic systemic

Inhalation

1 mg/m3

VND

1 mg/m3

VND

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

Predicted no-effect concentration - PNEC

Normal value in fresh water

2

mg/l

Normal value in marine water

0,2

mg/l

Normal value for water, intermittent release

1

mg/l

Normal value of STP microorganisms

41,2

mg/l

Normal value for the food chain (secondary poisoning)

67

mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

Route of exposure

Acute local

Acute systemic

Chronic local

Chronic systemic

Acute local

Acute systemic

Chronic local

Chronic systemic

Oral

1,5 mg/kg bw/d

Inhalation

1,8 mg/m3

55 mg/m3

55 mg/m3

7,3 mg/m3

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Skin		7500 mg/kg bw/d		15000 mg/kg bw/d
QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE				
Threshold Limit Value				
Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	mg/m3 ppm
VLEP	ITA	8	5	15 10
OEL	EU	8	5	15 10
TLV-ACGIH				2 (C)
Legend:				
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction, VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.				
8.2. Exposure controls				
The use of appropriate technical measures should always take priority over personal protection equipment, Provide a good level of general ventilation in the workplace (3 to 5 air changes per hour). The individual protection devices must bear the CE marking that certifies their compliance with the regulations in force.				
Provide an emergency shower with face and eye wash station.				
HAND PROTECTION				
Protect hands with category III work gloves.				
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.				
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.				
Protect your hands with gloves of the following type:				
Material: Butyl rubber (IIR)				
The following should be considered when choosing work glove material: compatibility, degradation, permeability time.				
Thickness: 0,5 mm				
Breakthrough time: 480 min				
Glove resistance depends on various elements, such as temperature and other environmental factors.				
Material: Nitrile rubber (NBR)				
The following should be considered when choosing work glove material: compatibility, degradation, permeability time.				
Thickness: 0,35 mm				
Glove resistance depends on various elements, such as temperature and other environmental factors.				
Material: Neoprene				
The following should be considered when choosing work glove material: compatibility, degradation, permeability time.				
Thickness: 0,5 mm				
Breakthrough time: 480 min				
Glove resistance depends on various elements, such as temperature and other environmental factors.				
Material: PVC				
The following should be considered when choosing work glove material: compatibility, degradation, permeability time.				
Thickness: 0,5 mm				
Breakthrough time: 480 min				
Glove resistance depends on various elements, such as temperature and other environmental factors.				
SKIN PROTECTION				
Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.				
EYE PROTECTION				

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Wear a hood visor or protective visor combined with airtight goggles (see standard EN ISO 16321).		
RESPIRATORY PROTECTION 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. Use a mask with a type ABEK-P filter whose class (2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.		
ENVIRONMENTAL EXPOSURE CONTROLS The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.		
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 mixtures.
Melting point / freezing point	not determined	Reason for missing data: no test available
Initial boiling point	> 100 °C	
Flammability	not applicable (liquid product).	
Lower explosive limit	not applicable	Reason for missing data: the product does not contain substances classified as explosive.
Upper explosive limit	not applicable	Reason for missing data: the product does not contain substances classified as explosive.
Flash point	> 100 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	13-14	Concentration: 100 % Temperature: 20 °C
Kinematic viscosity	not determined	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	not available	
Density and/or relative density	1,10-1,15	Temperature: 20 °C
Relative vapour density	not available	
Particle characteristics	not applicable	
9.2. Other information		
9.2.1. Information with regard to physical hazard classes		
Information not available		
9.2.2. Other safety characteristics		

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Explosive properties	not applicable. None of the substances contained has functional groups associated with explosive properties.	
Oxidising properties	not applicable. None of the contained substances has functional groups associated with oxidizing properties.	
SECTION 10. Stability and reactivity		
10.1. Reactivity		
Avoid contact with: strong oxidising agents, strong acids.		
10.2. Chemical stability		
Stable in normal conditions of use and storage.		
10.3. Possibility of hazardous reactions		
Reacts violently with: strong acids, Develops hydrogen on contact with: aluminium alloys, copper alloys, zinc alloys, light metals, Reacts violently with: peroxides.		
10.4. Conditions to avoid		
Avoid contact with: strong acids, oxidising agents, light metals, copper alloys, zinc alloys, aluminium alloys.		
10.5. Incompatible materials		
Compatible materials: polyethylene,polypropylene,PVC.		
Incompatible materials: aluminium,aluminium alloys,copper,copper alloys,zinc,zinc alloys.		
Avoid contact with: strong oxidising agents, strong acids.		
10.6. Hazardous decomposition products		
It does not decompose if used for its intended uses. If involved in a fire: carbon oxides, phosphorus oxides, nitrogen oxides, sulfur oxides, hydrochloric acid.		
SECTION 11. Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
<u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available.		
<u>Information on likely routes of exposure</u> Dermal, inhalation.		
<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u> This product is corrosive and causes abrasions of skin surface, accompanied by rubefaction, warmth and sting. In the most serious cases, small vesides appear, which cause strong sting and pain. 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.		
<u>Interactive effects</u> No other adverse effects known.		

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ACUTE TOXICITY
Corrosive to the respiratory tract.

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

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

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

ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLATES (> 2,5 EO)

LD50 (Oral):	> 2000 mg/kg
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QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE

LD50 (Oral):	> 300 mg/kg ratto
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SKIN CORROSION / IRRITATION
Corrosive for the skin. Classification according to the experimental pH value.

SODIUM HYDROXIDE
Corrosive (in vitro study, OECD method 435).

SERIOUS EYE DAMAGE / IRRITATION
Causes serious eye damage.

SODIUM HYDROXIDE
Corrosive (Morgan et al., 1987; Reer et al., 1976, Wenworth et al., 1993).

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

Skin sensitization
SODIUM HYDROXIDE
Non -sensitizing (species: man, patch test. Exposure time: 24 hours, visual evaluation).

GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class.

SODIUM HYDROXIDE
During normal use: limited absorption. Systemic effects not foreseen. (EU RAR, 2007; Section 4.1.2.6, page72).

CARCINOGENICITY
Does not meet the classification criteria for this hazard class.

SODIUM HYDROXIDE
During normal use: limited absorption. Systemic effects not foreseen.

REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class.

SODIUM HYDROXIDE
During normal use: limited absorption. Systemic effects not foreseen.

Adverse effects on sexual function and fertility
SODIUM HYDROXIDE
During normal use: limited absorption. Systemic effects not foreseen. (EU RAR, 2007; Section 4.1.2.8, page 73).

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<u>STOT - SINGLE EXPOSURE</u> Does not meet the classification criteria for this hazard class.		
<u>STOT - REPEATED EXPOSURE</u> Does not meet the classification criteria for this hazard class.		
<u>ASPIRATION HAZARD</u> 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		
Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.		
12.1. Toxicity		
TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE LC50 - for Fish > 100 mg/l/96h Rainbow trout EC50 - for Crustacea > 100 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants > 100 mg/l/72h		
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		
SODIUM HYDROXIDE LC50 - for Fish 35 mg/l/96h Fish EC50 - for Crustacea 40,4 mg/l/48h Ceriodaphnia dubia		
QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE LC50 - for Fish > 10 mg/l/96h Fish EC50 - for Crustacea > 1 mg/l/48h Daphnia (pulce d'acqua). EC50 - for Algae / Aquatic Plants > 1 mg/l/72h Algae.		
12.2. Persistence and degradability		
SODIUM HYDROXIDE Completely soluble. It is not persistent (EU RAR 2007; Section 3.3.1.2, page 34). Biodegradability: not applicable (inorganic substance).		
TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Rapidly degradable.		
ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLATES (> 2,5 EO) Rapidly degradable.		
QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE Rapidly degradable.		
12.3. Bioaccumulative potential		
SODIUM HYDROXIDE Non -Bioaccumulable (EU RAR 2007; Section 3.3.1.2, page 34).		
ALCOHOLS, C12-14 ETHOXYLATES / PROPOXYLATES (> 2,5 EO)		

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No data available.			
QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE Bioaccumulation unlikely (biodegradable and water-soluble product).			
TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE Partition coefficient: n-octanol/water < 0			
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			
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 according to Regulation (EC) n. 1357/2014, Decision (EU) n. 955/2014, Regulation (EU) n. 997/2017 (intact product): HP 8 - corrosive			
SECTION 14. Transport information			
14.1. UN number or ID number			
ADR / RID, IMDG, IATA: UN 1719			
14.2. UN proper shipping name			
ADR / RID: CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE; TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE) IMDG: CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE; TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE) IATA: CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE; TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE)			
14.3. Transport hazard class(es)			

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		DET&RINSE SPEED			
ADR / RID:	Class: 8	Label: 8			
IMDG:	Class: 8	Label: 8			
IATA:	Class: 8	Label: 8			
14.4. Packing group					
ADR / RID, IMDG, IATA:		II			
14.5. Environmental hazards					
ADR / RID:	NO				
IMDG:	not marine pollutant				
IATA:	NO				
14.6. Special precautions for user					
ADR / RID:	HIN - Kemler: 80		Limited Quantities: 1 lt		Tunnel restriction code: (E)
	Special provision: 274				
IMDG:	EMS: F-A, S-B		Limited Quantities: 1 lt		
IATA:	Cargo:		Maximum quantity: 30 L		Packaging instructions: 855
	Passengers:		Maximum quantity: 1 L		Packaging instructions: 851
	Special provision:		A3, A803		
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					
<u>Product</u>					
Point	3 - 40				
<u>Contained substance</u>					
Point	75				
<u>Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors</u>					

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	DET&RINSE SPEED	

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

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

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

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

15.2. Chemical safety assessment

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

SODIUM HYDROXIDE

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

SECTION 16. Other information

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

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

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	DET&RINSE SPEED			
Acute Tox. 4	Acute toxicity, category 4			
Skin Corr. 1A	Skin corrosion, category 1A			
Skin Corr. 1B	Skin corrosion, category 1B			
Skin Corr. 1C	Skin corrosion, category 1C			
Eye Dam. 1	Serious eye damage, category 1			
Eye Irrit. 2	Eye irritation, category 2			
Skin Irrit. 2	Skin irritation, category 2			
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.			
H319	Causes serious eye irritation.			
H315	Causes skin irritation.			
H412	Harmful to aquatic life with long lasting effects.			
EUH071	Corrosive to the respiratory tract.			
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	10	Roller application or brushing		
PROC	11	Non industrial spraying		
PROC	13	Treatment of articles by dipping and pouring		
PROC	8a	Transfer of substance or mixture (charging and discharging) at non- 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)				
- 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				
- PEC: Predicted environmental Concentration				
- PEL: Predicted exposure level				
- PMT: Persistent, mobile and toxic				
- 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				
- vPvM: Very persistent and very mobile				

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- 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
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
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23. Delegated Regulation (UE) 2023/707
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24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

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

Note for users:

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

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

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.