



UNOX S.p.A.

Revision n. 1
Dated 16/01/2023
Printed on 16/01/2023
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DET & RINSE ULTRAPLUS

Safety Data Sheet

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

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

1.1. Product identifier

Code: DB1075A0, DB1076A0, DB1077A0
Product name: DET & RINSE ULTRAPLUS
UFI: 0800-F0SH-V008-NU18

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

Intended use: Oven cleaner (EUPCS: PCCLN-10.4).

Identified Uses

Transfer to a container through a dedicated line (bottle/machine)	Industrial	Professional	Consumer
	-	ERC: 8a, PRQC: 8b, PC: 35, LCS: Pw.	-

Uses Advised Against

Any use other than those identified.

1.3. Details of the supplier of the safety data sheet

Name: Unox S.p.A.,
Full address: Via Majorana, 22
35010 Cadoneghe (Padova)
District and Country: Kallia
tel. +39 049 86 57 514
fax +39 049 86 57 555e-mail address of the competent person responsible for the Safety Data Sheet
del.rinse@unox.com

1.4. Emergency telephone number

For urgent inquiries refer to
3E
Tel. (+1)-760-476-3961
Tel. (+1)-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 indicator:	H290	May be corrosive to metals.
Substance or mixture corrosive to metals, category 1	H314	Causes severe skin burns and eye damage.
Skin corrosion, category 1A	H318	Causes serious eye damage.
Serious eye damage, category 1		

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

Precautionary statements:

P280 Wear protective gloves / protective clothing / eye protection / face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER.
 P390 Absorb spillage to prevent material damage.
 P501 Dispose of contents / container in accordance with local regulations.

Contains: SODIUM HYDROXIDE

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

Less than 5% anionic surfactants, amphoteric surfactants, polycarboxylates, phosphonates

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0.1%.The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
SODIUM HYDROXIDE		
CAS 1310-73-2	15 \leq x < 25	Mel. Cor. 1 H290, Skin Cor. 1A H314, Eye Dam. 1 H318
EC 215-185-5		Skin Cor. 1B H314: \geq 2%, Skin Irrit. 2 H315: \geq 0.5%, Eye Dam. 1 H318: \geq 2%, Eye Irrit. 2 H319: \geq 0.5%
INDEX 011-002-00-6		
REACH Reg. 01-2119457892-27-XXXX		

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



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GBR United Kingdom
TLV-ACGHEHA02005 Workplace exposure limits (Fourth Edition 2020)
ACGH 2021

SODIUM HYDROXIDE

Threshold Limit Value Type	Country	TLV/8h	STEL/15min	Remarks / Observations
TLV	GBR	2 mg/m3	2 ppm	
VIA	ESP	2		
VLEP	FRA	2		
TLV	GRC	2	2	
GV/K/GVI	HRV		2	
WEL	GBR		2	
TLV-ACGH			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

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction,
 VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPL = 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 III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, 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.



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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	Method organoleptic
Odour threshold	not applicable	Reason for missing data: Not applicable to mixtures.
Melting point / freezing point	not determined	Reason for missing data: no test available
Initial boiling point	> 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.
Flash point	> 100°C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	14	Temperature: 20 °C
Kinematic viscosity	not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not applicable	Reason for missing data: Not applicable to mixtures.
Vapour pressure	not available	
Density and/or relative density	1,2-1,3	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

No other information available.

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Explosive properties


not applicable. None of the substances contained has functional groups associated with explosive 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

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	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.
SODIUM HYDROXIDE		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		Corrosive: aluminium, aluminium alloy/s, copper, copper alloy/s, zinc, zinc alloys.
Compatible materials: polyethylene, polypropylene, PVC.		Incompatible materials: aluminium, aluminium alloy/s, copper, copper alloy/s, zinc, zinc alloy/s.
10.6. Hazardous decomposition products		If involved in a fire: carbon oxides, nitrogen oxides, sulfur oxides, potassium oxides, sodium oxides.
SECTION 11. Toxicological information		
In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
<u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available		
<u>Information on likely routes of exposure</u> Dermal.		
<u>Inhalation (in case of aerosol formation only - use not recommended).</u>		
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: stinging, 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> Interactive effects are not known.		
ACUTE TOXICITY ATE (Inhalation) of the mixture: ATE (Oral) of the mixture:		Not classified (no significant component) Not classified (no significant component)

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	ATE (Dermal) of the mixture: Not classified (no significant component)	
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		
<u>Respiratory sensitization</u> Information not available		
<u>Skin sensitization</u> 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, page 72).		
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.		
SODIUM HYDROXIDE During normal use: limited absorption. Systemic effects not foreseen.		
<u>Adverse effects on sexual function and fertility</u> SODIUM HYDROXIDE During normal use: limited absorption. Systemic effects not foreseen. (EU RAR, 2007; Section 4.1.2.6, page 73).		
<u>Information on development of the offspring</u> Information not available		
<u>Effects on or via lactation</u> Information not available		
STOT - SINGLE EXPOSURE Does not meet the classification criteria for this hazard class		
<u>Target organs</u> Information not available		



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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

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

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

SODIUM HYDROXIDE
LC50 - for Fish
EC50 - for Crustacea
35 mg/l/96h Pease
40.4 mg/l/48h Ceriodaphnia dubia

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).

12.3. Bioaccumulative potential

SODIUM HYDROXIDE
Non-Bioaccumulable (EU RAR 2007: Section 3.3.1.2, page 34).

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 \geq 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.



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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 (inact product): HP8 - Corrosive

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1824

14.2. UN proper shipping name

ADR / RID: SODIUM HYDROXIDE SOLUTION
IMDG: SODIUM HYDROXIDE SOLUTION
IATA: SODIUM 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: II

14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID: H11 - Kemler 80 Limited Quantities: 1 L Tunnel restriction code: (E)
Special provision: -
IMDG: EMS: F-A, S-B Limited Quantities: 1 L



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LATA: Cargo: Maximum quantity: 30 L Packaging instructions: 855
 Pass.: Maximum quantity: 1 L
 Special provision: A3, A803 Packaging instructions: 851

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 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 \geq 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.



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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:

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Causes respiratory irritation.
H332	Irritates the respiratory tract.
H334	May cause or aggravate asthma or other respiratory symptoms.
H335	Irritates the eyes, nose and throat.
H373	May cause genetic defects, miscarriage or foetal abnormalities.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life in the short term.
H412	Harmful to aquatic life in the short term.
H413	Possibly harmful to aquatic life in the long term.
H501	Very toxic to the environment.
H502	Toxic to the environment.
H503	Harmful to the environment.
H504	Possibly harmful to the environment.

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)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEI: Derived No Effect Level
- Ems: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- ATA DGR: International Air Transport Association Dangerous Goods Regulation
- G50: 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) 809/2014 (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) 2018/689 (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)
 19. Delegated Regulation (UE) 2020/182 (XV Atp. CLP)
 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
 - 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 subjected to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation Annex I, Part 2. The data for evaluation of chemical/physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:
01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.