

UNOX

UNOX S.p.A.

Revision n. 1
Dated 16/01/2023
Printed on 16/01/2023
Page n. 1/13

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: PC-CLN-10.4).

Identified Uses

Industrial	Professional	Consumer
Transfer to a container through a dedicated line (bottle/machine)	- ERC: 8a. 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

Name Unox Inc
Full address 987 Airline Parkway
District and Country Denver, NC 28037
Phone 800-489-8669

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 3E
Tel (+)1.866.519.4752
Access code: 334577
Hours: 24/7

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.
Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms:

UNOX

UNOX S.p.A.

Revision n. 1
Dated 16/01/2023
Printed on 16/01/2023
Page n. 2/13

DET & RINSE ULTRAPLUS

Signal words: Danger

Hazard statements:

H290
H314

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

Precautionary statements:

P280
P301+P330+P331
P303+P361+P353
P305+P351+P338

Wear protective gloves / protective clothing / eye protection / face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER.
Absorb spillage to prevent material damage.
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

SODIUM HYDROXIDE

CAS 1310-73-2

EC 215-185-5

INDEX 011-002-00-6

REACH Reg. 01-2119457892-27-XXXX

x = Conc. %
15 $\leq$ x < 25

Classification (EC) 1272/2008 (CLP)
Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318
Skin Corr. 1B H314: $\geq$ 2%, Skin Irrit. 2 H315: $\geq$ 0,5%, Eye Dam. 1 H318: $\geq$ 2%, Eye Irrit. 2 H319: $\geq$ 0,5%

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

SECTION 4. First aid measures

	UNOX S.p.A.				Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 5/13			
	DET & RINSE ULTRAPLUS							

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

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 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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

	UNOX S.p.A.		Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 6/13
	DET & RINSE ULTRAPLUS		
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	> 60 °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.		
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			

	UNOX S.p.A.	Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 7/13
	DET & RINSE ULTRAPLUS	

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

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

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

Metabolism, toxicokinetics, mechanism of action and other information
Information not available

Information on likely routes of exposure
Dermal.
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
Interactive effects are not known.

ACUTE TOXICITY
ATE (Inhalation) of the mixture: Not classified (no significant component)
ATE (Oral) of the mixture: Not classified (no significant component)
ATE (Dermal) of the mixture: Not classified (no significant component)

SKIN CORROSION / IRRITATION
Corrosive for the skin. Classification according to the experimental pH value.

	UNOX S.p.A.	Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 8/13
	DET & RINSE ULTRAPLUS	
SODIUM HYDROXIDE Corrosive (in vitro study, OECD method 435).		
<u>SERIOUS EYE DAMAGE / IRRITATION</u> Causes serious eye damage		
SODIUM HYDROXIDE Corrosive (Morgan et al., 1987; Reer et al., 1976, Wenworth et al., 1993).		
<u>RESPIRATORY OR SKIN SENSITISATION</u> 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).		
<u>GERM CELL MUTAGENICITY</u> 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).		
<u>CARCINOGENICITY</u> Does not meet the classification criteria for this hazard class		
SODIUM HYDROXIDE During normal use: limited absorption. Systemic effects not foreseen.		
<u>REPRODUCTIVE TOXICITY</u> Does not meet the classification criteria for this hazard class		
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 4.1.2.8, page 73).		
<u>Adverse effects on development of the offspring</u> Information not available		
<u>Effects on or via lactation</u> Information not available		
<u>STOT - SINGLE EXPOSURE</u> Does not meet the classification criteria for this hazard class		
<u>Target organs</u> Information not available		
<u>Route of exposure</u> Information not available		
<u>STOT - REPEATED EXPOSURE</u> Does not meet the classification criteria for this hazard class		

	UNOX S.p.A.	Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 9/13					
	DET & RINSE ULTRAPLUS						
<u>Target organs</u> Information not available <u>Route of exposure</u> 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 <table><tr><td>SODIUM HYDROXIDE</td><td></td></tr><tr><td>LC50 - for Fish</td><td>35 mg/l/96h Pesce</td></tr><tr><td>EC50 - for Crustacea</td><td>40,4 mg/l/48h Ceriodaphnia dubia</td></tr></table>			SODIUM HYDROXIDE		LC50 - for Fish	35 mg/l/96h Pesce	EC50 - for Crustacea
SODIUM HYDROXIDE							
LC50 - for Fish	35 mg/l/96h Pesce						
EC50 - for Crustacea	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.							
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							

	UNOX S.p.A.	Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 10/13											
	DET & RINSE ULTRAPLUS												
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: 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) <table><tr><td>ADR / RID:</td><td>Class: 8</td><td>Label: 8</td><td rowspan="3"></td></tr><tr><td>IMDG:</td><td>Class: 8</td><td>Label: 8</td></tr><tr><td>IATA:</td><td>Class: 8</td><td>Label: 8</td></tr></table>		ADR / RID:	Class: 8	Label: 8		IMDG:	Class: 8	Label: 8	IATA:	Class: 8	Label: 8		
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 <table><tr><td>ADR / RID:</td><td>HIN - Kemler: 80 Special provision: -</td><td>Limited Quantities: 1 L</td><td>Tunnel restriction code: (E)</td></tr><tr><td>IMDG:</td><td>EMS: F-A, S-B</td><td>Limited Quantities: 1 L</td><td></td></tr><tr><td>IATA:</td><td>Cargo: Pass.: Special provision:</td><td>Maximum quantity: 30 L Maximum quantity: 1 L A3, A803</td><td>Packaging instructions: 855 Packaging instructions: 851</td></tr></table>		ADR / RID:	HIN - Kemler: 80 Special provision: -	Limited Quantities: 1 L	Tunnel restriction code: (E)	IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L		IATA:	Cargo: Pass.: Special provision:	Maximum quantity: 30 L Maximum quantity: 1 L A3, A803	Packaging instructions: 855 Packaging instructions: 851
ADR / RID:	HIN - Kemler: 80 Special provision: -	Limited Quantities: 1 L	Tunnel restriction code: (E)										
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L											
IATA:	Cargo: Pass.: Special provision:	Maximum quantity: 30 L Maximum quantity: 1 L A3, A803	Packaging instructions: 855 Packaging instructions: 851										

	UNOX S.p.A.	Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 11/13
	DET & RINSE ULTRAPLUS	
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		
<u>Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006</u>		
<u>Product</u> Point	3	
<u>Contained substance</u>		
Point	75	
<u>Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors</u>		
not applicable		
<u>Substances in Candidate List (Art. 59 REACH)</u>		
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.		
<u>Substances subject to authorisation (Annex XIV REACH)</u>		
None		
<u>Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:</u>		
None		
<u>Substances subject to the Rotterdam Convention:</u>		
None		
<u>Substances subject to the Stockholm Convention:</u>		
None		
<u>Healthcare controls</u>		
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		

	UNOX S.p.A.	Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 12/13
	DET & RINSE ULTRAPLUS	
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	
Skin Corr. 1A	Skin corrosion, category 1A	
Eye Dam. 1	Serious eye damage, category 1	
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
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		
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		

	UNOX S.p.A.	Revision n. 1 Dated 16/01/2023 Printed on 16/01/2023 Page n. 13/13
	DET & RINSE ULTRAPLUS	

- 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
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)
19. Delegated Regulation (UE) 2020/1182 (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 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.

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.