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:	**DB1044A0**
Product name	**SPRAY&RINSE**
UFI:	**Y300-F0DR-8009-A4V4**

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

Intended use	**Oven cleaner; detergent for cooking surfaces.**

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	**Unox S.p.A.**
Full address	**Via Majorana, 22**
District and Country	**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	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:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.

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:

H318	Causes serious eye damage.
H315	Causes skin irritation.

Precautionary statements:

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

Contains: 2-AMINOETHANOL
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY)-(3EO)

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

Less than 5%	anionic surfactants
5% or over but less than 15%	non-ionic surfactants

perfumes, Benzyl Benzoate, Limonene

Preservation agents: phenoxyethanol

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 < 10	Substance with a community workplace exposure limit.
EC 252-104-2		
INDEX -		
REACH Reg. 01-2119450011-60-XXXX		
2-AMINOETHANOL		
CAS 141-43-5	1 ≤ x < 4,5	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 205-483-3		LD50 Oral: >1510 mg/kg, LD50 Dermal: >1025 mg/kg, STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l
INDEX 603-030-00-8		
REACH Reg. 01-2119486455-28-XXXX		
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)		
CAS 127036-24-2	1 ≤ x < 4,5	Acute Tox. 4 H302, Eye Dam. 1 H318
EC 603-182-5		LD50 Oral: >300 mg/kg
INDEX -		
REACH Reg. *		
POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY)-(3EO)		
CAS 105391-15-9	1 ≤ x < 2	Eye Dam. 1 H318, Skin Irrit. 2 H315
EC 600-651-6		
INDEX -		
REACH Reg. *		
N,N-DIMETHYL 9-DECENAMIDE		
CAS 1356964-77-6	1 ≤ x < 2	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412
EC 806-919-0		LD50 Oral: 550 mg/kg
INDEX -		
REACH Reg. 01-2120058432-61-0000		

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

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
*Exempted: polymer. See article 2(9) Regulation (EC) n. 1907/2006.

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY)-(3EO)
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

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.

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.

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.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Follow the instructions on the product labeled or on the information 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 56
ESP	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 2019/983/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
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 mutagénicos
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 și 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	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 2021

DIPROPYLENE GLYCOL MONOMETHYL ETHER
Threshold Limit Value

Type	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
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 concentration - PNEC		
Normal value in fresh water	19	mg/l
Normal value in marine water	1,9	mg/l
Normal value for fresh water 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 microorganisms	4168	mgl
Normal value for the terrestrial compartment	2,74	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
Inhalation			VND	37,2 mg/m3			VND	310 mg/m3
Skin			VND	15 mg/kg/d			VND	65 mg/kg/d

2-AMINOETHANOL
Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	8		15		
MAK	DEU	0,51	0,2	0,51	0,2	
VLA	ESP	2,5	1	7,5	3	SKIN
VLEP	FRA	2,5	1	7,6	3	SKIN
TLV	GRC	2,5	1	7,6	3	
GVI/KGVI	HRV	2,5	1	7,6	3	SKIN
VLEP	ITA	2,5	1	7,6	3	SKIN
VLE	PRT	2,5	1	7,6	3	SKIN
NDS/NDSCh	POL	2,5		7,5		SKIN
TLV	ROU	2,5	1	7,6	3	SKIN
MV	SVN	2,5	1	7,5	3	SKIN
WEL	GBR	2,5	1	7,6	3	SKIN
OEL	EU	2,5	1	7,6	3	SKIN

TLV-ACGIH		7,5	3	15	6			
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,085		mg/l		
Normal value in marine water				0,0085		mg/l		
Normal value for fresh water sediment				0,425		mg/kg ss		
Normal value for marine water sediment				0,0425		mg/kg ss		
Normal value of STP microorganisms				100		mg/l		
Normal value for the terrestrial compartment				0,035		mg/kg ss		
Health - Derived no-effect level - DNL / 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			VND	3,75 mg/kg/d				
Inhalation			2 mg/m3	VND			3,3 mg/m3	VND
Skin			VND	0,24 mg/kg/d			VND	1 mg/kg/d

N,N-DIMETHYL 9-DECENAMIDE								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,028		mg/l		
Normal value in marine water				0,0028		mg/l		
Normal value for fresh water sediment				1,541		mg/kg		
Normal value for marine water sediment				0,1541		mg/kg		
Normal value for water, intermittent release				0,028		mg/l		
Normal value of STP microorganisms				2,12		mg/l		
Normal value for the terrestrial compartment				5,3		mg/kg		
Health - Derived no-effect level - DNL / 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				2,857 mg/kg bw/d				
Inhalation				10 mg/m3				40 mg/m3
Skin				2,857 mg/kg bw/d				5,71 mg/kg bw/d

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 good general ventilation (ventilation obtained by opening doors and windows): 3-5 air / hour changes (dilution efficiency: 30%).

HAND PROTECTION
Use category III gloves (ref. standard EN 374). For definitive choice of gloves material consider: compatibility, degradation, breakthrough time and permeation. Work gloves wear time depends upon duration and type of wear. Suitable gloves (protection factor 6, permeation time > 480 minutes), material (thickness, mm): nitrile rubber (0,35 mm), butyl rubber (0,5 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, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
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.
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	colorless	
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	95 °C	Method:ASTM D93
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	10,5-11,0	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	0,99-1,05	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

VOC (Directive 2010/75/EU)	10,43 % - 102,76 g/litre
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

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

2-AMINOETHANOL
Avoid contact with: acids,oxidising agents.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

2-AMINOETHANOL
Avoid contact with: acids,oxidising agents.

10.5. Incompatible materials

2-AMINOETHANOL
Incompatible materials: mild steel,copper,copper alloys.

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Avoid contact with: oxidising agents,strong acids.

10.6. Hazardous decomposition products

2-AMINOETHANOL
In decomposition develops: carbon oxides,nitric oxide,nitrous gases.

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.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.
This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Interactive effects
Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Inhalation - gas) of the mixture:	0,0 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Dermal):	9500 mg/kg rabbit
LD50 (Oral):	5660 mg/kg rat

2-AMINOETHANOL

LD50 (Dermal):	> 1025 mg/kg rabbit
LD50 (Oral):	> 1510 mg/kg rat

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)

LD50 (Dermal):	> 2000 mg/kg rabbit
LD50 (Oral):	> 300 mg/kg rat

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY)-(3EO)

LD50 (Oral):	> 2000 mg/kg rat

N,N-DIMETHYL 9-DECENAMIDE

LD50 (Oral):	550 mg/kg rat

2-AMINOETHANOL
LC50 (inhalation):> 1.3 mg / l / 6h (rat).

SKIN CORROSION / IRRITATION
Causes skin irritation

2-AMINOETHANOL
Causes severe skin burns.

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Not irritating, rabbit (supplier data).

N,N-DIMETHYL 9-DECENAMIDE
Irritating to skin and mucous membranes (supplier data).

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

2-AMINOETHANOL
Causes serious eye damage.

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Irreversible effects to eyes, rabbit (supplier data).

N,N-DIMETHYL 9-DECENAMIDE
Irritating to eyes (supplier data).

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

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Skin sensitization (Guinea Pig Maximization Test): not sensitizing (supplier data).

N,N-DIMETHYL 9-DECENAMIDE
Not sensitizing to skin (supplier data).

Respiratory sensitization
Information not available

Skin sensitization
Information not available

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

2-AMINOETHANOL
The classification criteria are not met (supplier data).

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
In vitro tests did not showed any evidence of mutagenic effect (supplier data).
In vivo tests did not showed any evidence of mutagenic effects (supplier data).

CARCINOGENICITY
Does not meet the classification criteria for this hazard class

2-AMINOETHANOL
The classification criteria are not met (supplier data).

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
the substance is not genotoxic, no carcinogenic potential expected (supplier data).

N,N-DIMETHYL 9-DECENAMIDE
Not classfied as carcinogenic (supplier data).

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

2-AMINOETHANOL
The substance did not cause malformations in animal experiments (supplier data).

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Tests on animals did not showed any effect on fertility (supplier data).
No teratogenic effects on animals (supplier data).

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

2-AMINOETHANOL
It can irritate the respiratory tract.

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
The substance is not toxic to a target organ, single exposure.

Target organs
2-AMINOETHANOL
Respiratory tract.

Route of exposure
2-AMINOETHANOL
Inhalation.

STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
The substance is not toxic to a target organ, repeated exposure.

Target organs
Information not available

Route of exposure
Information not available

ASPIRATION HAZARD
Does not meet the classification criteria for this hazard class

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Not applicable.

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

2-AMINOETHANOL

LC50 - for Fish	> 349 mg/l/96h

EC50 - for Crustacea	> 27,04 mg/l/48h Daphnia magna (OECD 201, part 1 static).
EC50 - for Algae / Aquatic Plants	2,8 mg/l/72h Selenastrum capricornutum (OECD 201).
Chronic NOEC for Fish	1,2 mg/l Oryzias latipes (OECD 210).
Chronic NOEC for Crustacea	0,85 mg/l Daphnia magna (OECD 211).
Chronic NOEC for Algae / Aquatic Plants	> 2,5 mg/l

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

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY)-(3EO)

LC50 - for Fish	> 100 mg/l/96h OECD 203, Fish, Acute Toxicity Test.
EC50 - for Crustacea	> 100 mg/l/48h OECD 202, Daphnia sp. Acute Immobilization Test and Reproduction Test.
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h OECD 201, Alga, Growth Inhibition Test.

N,N-DIMETHYL 9-DECENAMIDE

LC50 - for Fish	> 7,5 mg/l/96h
EC50 - for Crustacea	2,8 mg/l/48h Daphnia
Chronic NOEC for Crustacea	0,28 mg/l Daphnia
Chronic NOEC for Algae / Aquatic Plants	1,1 mg/l

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)

LC50 - for Fish	> 10 mg/l/96h Cyprinus carpio (OECD TG 203)
EC50 - for Crustacea	> 10 mg/l/48h Daphnia magna (OECD TG 202)
EC10 for Algae / Aquatic Plants	> 1 mg/l/72h (OECD TG 201)
Chronic NOEC for Fish	> 1 mg/l
Chronic NOEC for Crustacea	> 1 mg/l Daphnia magna

12.2. Persistence and degradability

2-AMINOETHANOL
Rapidly degradable

DIPROPYLENE GLYCOL MONOMETHYL ETHER
Rapidly degradable

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(HEXYLOXY)-(3EO)
Rapidly degradable

N,N-DIMETHYL 9-DECENAMIDE
Rapidly degradable

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Rapidly degradable

12.3. Bioaccumulative potential

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Bioaccumulation is not likely.

2-AMINOETHANOL
Partition coefficient: n-octanol/water -2,3

N,N-DIMETHYL 9-DECENAMIDE
Partition coefficient: n-octanol/water 3,17

12.4. Mobility in soil

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)
Partition coefficient: soil/water > 3,6 QSAR
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.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

HP codes (intact product):
HP4 - irritating

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

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 - 40

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

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

2-AMINOETHANOL

N,N-DIMETHYL 9-DECENAMIDE

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:

Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
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	**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 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
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.