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

1.1. Product identifier

Code: Product name UFI : F\_237 BRILLANTANTE Professionale 0CN0-W01A-S00S-ENK5

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

Identified Uses	Industrial	Professional	Consumer
Rinse aid	-	~	<b>~</b>
Uses Advised Against			
Do not use for uses other than those indicated			
<b>1.3. Details of the supplier of the safety data sheet</b> Name Full address District and Country	NEW FADOR S.r.I. via Mario Calderara, 31 25018 Montichiari (BS) Italia Tel. +39 030961 243 www.newfador.it		
	www.newrador.it		
e-mail address of the competent person responsible for the Safety Data Sheet	info@newfador.it		
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	NEW FADOR S.r.I.		

<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	NEW FADOR S.
	+39 030961 243

(08.30 - 17.30)

# **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.

#### 2.2. Label elements

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

Hazard pictograms:



Signal words:

Hazard statements:

H318

Causes serious eye damage.

Danger

Precautionary statements:

P101 P102 If medical advice is needed, have product container or label at hand. Keep out of reach of children.

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P280	Wear 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
P310	rinsing. Immediately call a POISON CENTER.

Contains: UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO)

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

Less than 5% anionic surfactants 5% or over but less than 15%

#### perfumes

Preservation agents: 2-BROMO-2-NITROPROPANE-1,3-DIOL, GLUTARAL, BENZISOTHIAZOLINONE

## 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  $\ge 0.1\%$ .

# **SECTION 3. Composition/information on ingredients**

## 3.1. Substances

Information not relevant

## 3.2. Mixtures

#### Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
CAS 5949-29-1 EC 201-069-1 INDEX -	10,5≤x< 12	Eye Irrit. 2 H319
REACH Reg. 01-2119457026-42 ETHANOL		
CAS 64-17-5	$3 \le x < 3,5$	Flam. Liq. 2 H225, Eve Irrit. 2 H319
EC 200-578-6 INDEX 603-002-00-5 REACH Reg. 01-2119457610-43 UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES		
EO/PO) CAS -	2.5≤x< 3	Eye Dam. 1 H318
EC 940-634-3 INDEX -	2,0 = X > 0	
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO)		
CAS -	2,5 ≤ x < 3	Acute Tox. 4 H302, Eye Dam. 1 H318
EC 940-634-3 INDEX - <b>PROPAN-2-OL</b>		STA Oral: 500 mg/kg
CAS 67-63-0	1,5 ≤ x < 2	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 200-661-7		

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INDEX 603-117-00-0 REACH Reg. 01-2119457558-25 SODIUM p-CUMENESULPHONATE						
CAS 15763-76-5 EC 239-854-6 INDEX -	1≤x< 1	,5 E	ye Irrit. 2 H319			
REACH Reg. 01-21194 BRONOPOL	189411-37					
CAS 52-51-7	0 ≤ x < 0	A E S S A	cute Tox. 4 H302, cute Tox. 4 H312, ye Dam. 1 H318, kin Irrit. 2 H315, TOT SE 3 H335, quatic Acute 1 H40 quatic Chronic 2 H			
EC 200-143-0 INDEX 603-085-00-8 REACH Reg. 01-21199	80938-15	S	TA Oral: 500 mg/k	g, STA Dermal: 11(	00 mg/kg	
MORPHOLINE CAS 110-91-8	0 ≤ x < 0	A A A S	am. Liq. 3 H226, cute Tox. 4 H302, cute Tox. 4 H312, cute Tox. 4 H332, kin Corr. 1B H314, kin Corr. 1B H314,			
EC 203-815-1		L		/kg, STA Dermal: 1	1100 mg/kg, ST	A Inhalation vapours:
INDEX 613-028-00-9 REACH Reg. 01-21194	196057-30	11	1 mg/l			

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. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

# **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. 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 firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with selfcontained 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Store in a cool and well-ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## **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
CZE	Česká Republika	2020r.) Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů

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I	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
	DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
	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` »
I	HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
	HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu.
	T IIX V	Tilvalska	graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
	ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
	NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste
			lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
l	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
l	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
:	SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
:	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)
I	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

CITRIC ACID MONOHYDRATE			
Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,44	mg/l	
Normal value in marine water	0,044	mg/l	
Normal value for fresh water sediment	34,6	mg/kg	
Normal value for marine water sediment	3,46	mg/kg	
Normal value of STP microorganisms	1000	mg/l	
Normal value for the terrestrial compartment	33,1	mg/kg	

# ETHANOL

Threshold Limit Val	ue						
Туре	Country	TWA/8h		STEL/15min	I	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	Observations	
TLV	BGR	1000					
TLV	CZE	1000		3000			
AGW	DEU	960	500	1920	1000		
MAK	DEU	960	500	1920	1000		
TLV	DNK	1900	1000				
VLA	ESP			1910	1000		
VLEP	FRA	1900	1000	9500	5000		
TLV	GRC	1900	1000				
AK	HUN	1900		7600			
GVI/KGVI	HRV	1900	1000				
TGG	NLD	260		1900			
NDS/NDSCh	POL	1900					
NPEL	SVK	960	500	1920			
WEL	GBR	1920	1000				
TLV-ACGIH				1884	1000		
Predicted no-effect conc	entration - PNEC						
Normal value in fresh wa	ater			0,96	mg	/I	
Normal value in marine	water			0,79	mg	//	
Normal value for fresh water sediment				3,6	mg	/kg	
Normal value for marine	water sediment			2,9	mg	/kg	

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Normal value for water, inte	ermittent release			2,75	mį	g/l		
Normal value of STP micro	organisms			580	mç	g/l		
Normal value for the food c	0,38	0,38 mg/kg						
Normal value for the terrest	0,63	mç	g/kg					
Health - Derived no-eff	fect level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				87 mg/kg bw/d		-		
Inhalation				114 mg/m3				950 mg/m3
Skin				206 mg/kg bw/d				343 mg/kg bw/d

Туре	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observat	tions	
TLV	BGR	980	ppin	1225	ppin			
TLV	CZE	500		1000		SKIN		
AGW	DEU	500	200	1000	400	orari		
MAK	DEU	500	200	1000	400			
TLV	DNK	490	200					
VLA	ESP	500	200	1000	400			
VLEP	FRA		200	980	400			
TLV	GRC	980	400	1225	500			
AK	HUN	500		2000				
GVI/KGVI	HRV	999	400	1250	500			
TGG	NLD	650						
NDS/NDSCh	POL	900		1200				
NPEL	SVK	500	200	1000				
MV	SVN	500	200					
WEL	GBR	999	400	1250	500			
TLV-ACGIH		492	200	983	400			
Predicted no-effect concent	ration - PNEC							
Normal value in fresh water				140,9	mg	ı/I		
Normal value in marine wat	er			140,9	mg	//		
Normal value for fresh wate	r sediment			552	mg	/kg/d		
Normal value for marine wa	ter sediment			552	mg	/kg/d		
Normal value for water, inte	rmittent release			140,9	mg	//		
Normal value of STP micro	organisms			2251	mg	//		
Normal value for the food cl	hain (secondary poisor	ning)		160	mg	/kg food		
Normal value for the terrest	rial compartment			28	mg	/kg/d		
Health - Derived no-eff	ect level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				26 mg/kg bw/d				
Inhalation				89 mg/m3				500 mg/m

	bw/d		bw/d
SODIUM p-CUMENESULPHONATE Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,23	mg/l	
Normal value in marine water	0,023	mg/l	
Normal value for fresh water sediment	0,862	mg/kg/d	
Normal value for marine water sediment	0,086	mg/kg/d	
Normal value of STP microorganisms	100	mg/l	

319 mg/kg

888 mg/kg

Skin

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Normal value for the terrestrial c	ompartment			0,037	mg	/kg/d		
Health - Derived no-effect	level - DNEL / DN Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3,8 mg/kg bw/d				*
Inhalation				6,6 mg/m3				26,9 mg/m3
Skin			0,048 mg/cm <sup>2</sup>	68,1 mg/kg bw/d			0,096 mg/cm <sup>2</sup>	136,25 mg/kg bw/d
BRONOPOL								
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				0,01	mg	/I		
Normal value in marine water				0,001	mg	/I		
Normal value for fresh water sec	liment			0,041	mg	/kg		
Normal value for marine water se	ediment			0,003	mg/kg			
Normal value for water, intermitte	ent release			0,003	mg/l			
Normal value of STP microorgan	nisms			0,43	mg/l			
Normal value for the terrestrial c	ompartment			0,5	mg	/kg		
Health - Derived no-effect	level - DNEL / DN	<b>NEL</b>						
	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		1,1 mg/kg bw/d		0,35 mg/kg bw/d				
Inhalation	1,3 mg/m3	3,7 mg/m3	1,3 mg/m3	1,2 mg/m3	4,2 mg/m3	12,3 mg/m3	4,2 mg/m3	4,1 mg/m3
Skin	0,008 mg/cm2	4,2 mg/kg bw/d	0,008 mg/cm2	1,4 mg/kg bw/d	0,013 mg/cm2	7 mg/kg bw/d	0,013 mg/cm2	2,3 mg/kg bw/d

MORPHOLINE Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	20				SKIN	
TLV	CZE	35		70		SKIN	
AGW	DEU	36	10	72	20	SKIN	
MAK	DEU	36	10	72	20		
TLV	DNK	36	10			SKIN	
VLA	ESP	36	10	72	20		
VLEP	FRA	36	10	72	20		
TLV	GRC	36	10	72	20		
AK	HUN	70		70		SKIN	
GVI/KGVI	HRV	36	10	72	20	SKIN	
VLEP	ITA	36	10	72	20	SKIN	
TGG	NLD	36	10	72	20	SKIN	
VLE	PRT	36	10	72	20		
NDS/NDSCh	POL	36		72			
NPEL	SVK	36	10	72			
WEL	GBR	36	10	72	20	SKIN	
OEL	EU	36	10	72	20		
TLV-ACGIH		71	20			SKIN	
Predicted no-effect concer	ntration - PNEC						
Normal value in fresh wate	Pr			0,1		mg/l	
Normal value in marine wa	iter			0,01		mg/l	
Normal value for fresh wat			0,01		mg/kg		
Normal value for marine w			1,49		mg/kg		
Normal value for water, int			0,28		mg/l		
Normal value of STP micro	oorganisms			10		mg/l	
Normal value for the terres	strial compartment			0,239		mg/kg	

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## 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		38 mg/kg bw/d		6,3 mg/kg bw/d				
Inhalation	18 mg/m3		3,2 mg/m3	45 mg/m3			36 mg/m3	91 mg/m3
Skin				0,52 mg/kg bw/d				1,04 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

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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.

#### SKIN PROTECTION

Wear category I 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 Appearance	<b>Value</b> liquid	Information
Colour	blue	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point Auto-ignition temperature	> 100 °C not available	Met.: ASTM D93-19
Decomposition temperature	not available	

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рН	$2.5 \pm 0.4$
Kinematic viscosity	not available
Solubility	soluble in water
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	0,99
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)	5,09 % - 50,42 g/litre
Explosive properties	not classified as explosive, contains no explosive
	substances according to CLP Art. (14 (2))
Oxidising properties	the product is not an oxidizing substance

# **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

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

BRONOPOL

Decomposes on contact with: water, metals, strong bases.

MORPHOLINE On contact with: strong oxidising agents, reducing agents, strong acids, strong bases. May develop: heat.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

## 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

ETHANOL

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ETHANOL Avoid exposure to: sources of heat, naked flames.

BRONOPOL Avoid exposure to: light, UV rays, moisture.

#### 10.5. Incompatible materials

Information not available

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## 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

BRONOPOL

May develop: nitric oxide, carbon oxides, hydrobromic acid.

## **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 info	ormation
Information not available	omation
Information on likely routes of exposure	
Information not available	
Delayed and immediate effects as well as chronic effects from	short and long-term exposure
Information not available	
Interactive effects	
Information not available	
ACUTE TOXICITY	Not clossified (no cignificant component)
ATE (Inhalation) of the mixture: ATE (Oral) of the mixture:	Not classified (no significant component) >2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)
CITRIC ACID MONOHYDRATE	
LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	5400 mg/kg Mouse
ETHANOL	
LD50 (Oral):	> 5000 mg/kg Rat
LC50 (Inhalation vapours):	120 mg/l/4h Pimephales promelas
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, I	
LD50 (Oral):	> 2000 mg/kg
STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, I LD50 (Oral):	> 2000  mg/kg
ED30 (Oral).	> 2000 mg/kg
PROPAN-2-OL	
LD50 (Dermal):	16,4 ml/kg Rat
LD50 (Oral):	5840 mg/kg bw Rat
LC50 (Inhalation vapours):	> 10000 ppm/6h Rat
SODIUM p-CUMENESULPHONATE	
LD50 (Dermal):	2000 mg/kg bw
LD50 (Oral):	> 7000 mg/kg
LC50 (Inhalation mists/powders):	6410 mg/m³
PRONOROL	
BRONOPOL	64 maller rot
LD50 (Dermal): STA (Dermal):	64 mg/kg rat 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
STA (Definial).	(figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	254 mg/kg rat
LC50 (Inhalation mists/powders):	0,588 mg/l/4h rat
	0,000 mg/#=n rdt
MORPHOLINE	
LD50 (Dermal):	500 mg/kg Rabbit
STA (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
. ,	(figure used for calculation of the acute toxicity estimate of the mixture)

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LD50 (Oral): LC50 (Inhalation vapours): 1050 mg/kg Rat 35,1 mg/l/1h Rat

SKIN CORROSION / IRRITATION Does not meet the classification criteria for this hazard class SERIOUS EYE DAMAGE / IRRITATION Causes serious eye damage RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class Respiratory sensitization Information not available Skin sensitization Information not available GERM CELL MUTAGENICITY Does not meet the classification criteria for this hazard class CARCINOGENICITY Does not meet the classification criteria for this hazard class REPRODUCTIVE TOXICITY Does not meet the classification criteria for this hazard class Adverse effects on sexual function and fertility Information not available Adverse effects on development of the offspring Information not available Effects on or via lactation Information not available STOT - SINGLE EXPOSURE Does not meet the classification criteria for this hazard class Target organs Information not available Route of exposure Information not available STOT - REPEATED EXPOSURE Does not meet the classification criteria for this hazard class Target organs Information not available Route of exposure Information not available 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

MORPHOLINE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants

SODIUM p-CUMENESULPHONATE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants

BRONOPOL LC50 - for Fish EC50 - for Crustacea 179 mg/l/96h 45 mg/l/48h 51 mg/l/72h 31 mg/l 72h

1000 mg/l/96h 1000 mg/l/48h 230 mg/l/72h 31 mg/l

20 mg/l/96h Oncorhynchus mykiss 1,6 mg/l/48h Daphnia magna

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EC50 - for Algae / Aquatic P			0,25 mg/l/72h			
Chronic NOEC for Algae / A	quatic Plants		0,08 mg/l			
CITRIC ACID MONOHYDR	ATE		> 100 mg/l/96h			
EC50 - for Crustacea			> 50 mg/l/48h			
Chronic NOEC for Algae / A	quatic Plants		425 mg/l			
ETHANOL						
_C50 - for Fish			14200 mg/l/96h			
EC50 - for Crustacea			454 mg/l/48h			
EC50 - for Algae / Aquatic P	Plants		275 mg/l/72h			
Chronic NOEC for Fish			250 mg/l			
Chronic NOEC for Crustace			96 mg/l			
Chronic NOEC for Algae / A	quatic Plants		11,5 mg/l			
PROPAN-2-OL			0070 m c///00h L		lanatus	
LC50 - for Fish EC50 - for Crustacea			8970 mg/l/96h Le 9714 mg/l/24h D		lanotus	
UNDECANOL, BRANCHED THOXYLATED, PROPOXY IOLES EO/PO) LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic P Chronic NOEC for Algae / A	′LATED (>=2.5 Plants		> 1 mg/l/96h > 1 mg/l/48h > 1 mg/l/72h 1,7 mg/l			
UNDECANOL, BRANCHED THOXYLATED, PROPOXY IOLES EO/PO) LC50 - for Fish			> 1 mg/l/96h			
EC50 - for Crustacea			> 1 mg/l/48h			
EC50 - for Algae / Aquatic P	Plants		> 1 mg/l/72h			
Chronic NOEC for Algae / A	quatic Plants		1,7 mg/l			
2.2. Persistence and degra	dability					
MORPHOLINE Solubility in water			1000 - 10000 mg	1/1		
Rapidly degradable				y 1		
SODIUM p-CUMENESULPH Rapidly degradable	HONATE					
BRONOPOL						
Solubility in water			286000 mg/l			
Rapidly degradable						
CITRIC ACID MONOHYDR	ATE					
THANOL						
Solubility in water Rapidly degradable			1000 - 10000 mg	<b>j/l</b>		
PROPAN-2-OL Rapidly degradable						
JNDECANOL, BRANCHED THOXYLATED, PROPOXY IOLES EO/PO) Rapidly degradable						

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UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO) Rapidly degradable	
12.3. Bioaccumulative potential	
MORPHOLINE Partition coefficient: n-octanol/water BCF	-2,55 < 2,8
SODIUM p-CUMENESULPHONATE BCF	23
BRONOPOL Partition coefficient: n-octanol/water BCF	0,22 3,16
CITRIC ACID MONOHYDRATE BCF	3,2
ETHANOL Partition coefficient: n-octanol/water	-0,35
PROPAN-2-OL Partition coefficient: n-octanol/water	0,05
12.4. Mobility in soil	
MORPHOLINE	

Partition coefficient: soil/water

## 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.

-0,6196

#### 12.7. Other adverse effects

Information not available

## **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.

# **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.

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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

<u>Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors</u> not applicable

Substances in Candidate List (Art. 59 REACH) GLUTARALDEIDE REACH Reg.: 01-2119455549-26

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

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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 not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

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

Flam. Liq. 2	Flammable liquid, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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).

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- Regulation (EC) 1272/2008 (CLP) of the European Parliament
  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 (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
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- 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:

01/02/03/08/09/10/11/12/15/16.