

Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020
Revision n° 2
Rev. Date 11/11/2022
Page
1 of 20

SECTION 1. Identification of the subs	tance/mixture and of	the company/underta	aking
1.1. Product identifier Code: Product name UFI :	F_237 Professional BRIGHTENER 0CN0-W01A-S00S-ENK5		
1.2. Relevant identified uses of the substance or m	ixture and uses advised agai	inst	
Identified Uses	Industrial	Professional	Consumer
Rinse aid	-	v	v
Uses Advised Against			
Do not use for uses other than those indicated			
1.3. Details of the supplier of the safety data sheet 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		
e-mail address of the competent person			
responsible for the Safety Data Sheet	info@newfador.it		
1.4. Emergency telephone number For urgent inquiries refer to	NEW FADOR S.r.I. +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 th	e provisions set forth in (EC)	Regulation 1272/2008 (CLP)	(and subsequent amendments and
supplements). The product thus requires a safety datash Any additional information concerning the risks for healt	neet that complies with the prov	visions of (EU) Regulation 2020)/878.
Hazard classification and indication: Serious eye damage, category 1	H318	Causes serious eye damage	э.
2.2. Label elements			
Hazard labelling pursuant to EC Regulation 1272/2008 ((CLP) and subsequent amendm	nents and supplements.	
Hazard pictograms:			



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page 2 of 20

Signal words:	Danger
Hazard statements:	
H318	Causes serious eye damage.
Precautionary statement	S:
P101 P102 P280 P305+P351+P338 P310	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Wear eye protection / face protection. 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.
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	non-ionic surfactants
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 $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
CITRIC ACID MONOHYDRATE		
CAS 5949-29-1	10,5 ≤ x < 12	Eye Irrit. 2 H319
EC 201-069-1		



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page 3 of 20

INDEX - REACH Reg. 01-2119457026-42 ETHANOL CAS 64-17-5	26 4 6 25	Elem Lia 2 4225
CAS 64-17-5	3 ≤ x < 3,5	Flam. Liq. 2 H225, Eye 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 -		
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO)		
CAS -	$2,5 \le x \le 3$	Acute Tox. 4 H302, Eye Dam. 1 H318
EC 940-634-3		STA Oral: 500 mg/kg
INDEX -		
PROPAN-2-OL		
CAS 67-63-0	1,5 ≤ x < 2	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 200-661-7		
INDEX 603-117-00-0		
REACH Reg. 01-2119457558-25		
SODIUM p-CUMENESULPHONATE		
CAS 15763-76-5	1 ≤ x < 1,5	Eye Irrit. 2 H319
EC 239-854-6		
INDEX -		
REACH Reg. 01-2119489411-37 BRONOPOL		
CAS 52-51-7	0 ≤ x < 0,05	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411
EC 200-143-0		STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg
INDEX 603-085-00-8		
REACH Reg. 01-2119980938-15		
MORPHOLINE		
CAS 110-91-8	0 ≤ x < 0,05	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020
Revision n° 2
Rev. Date 11/11/2022
Page
4 of 20

EC 203-815-1

LD50 Oral: 1050 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l

INDEX 613-028-00-9 REACH Reg. 01-2119496057-30

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.

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 self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020
Revision n° 2
Rev. Date 11/11/2022
Page
5 of 20

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 2020г.)
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
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.



Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page 6 of 20

Conforms to Reg. (EU) 878/2020

		MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher
		Arbeitsstoffe, Mitteilung 56
DNK		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
	 <i>i</i>	μεταλλαξιγόνους παράγοντες κατά την εργασία``»
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,
		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
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
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)
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 Valu	ue						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
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			



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page

7 of 20

NDS/NDSCh								
ND5/ND5Ch	POL	1900						
NPEL	SVK	960	500	1920				
WEL	GBR	1920	1000					
TLV-ACGIH				1884	1000			
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				0,96	m	g/l		
Normal value in marine wate	r			0,79	mş	g/l		
Normal value for fresh water	sediment			3,6	m	g/kg		
Normal value for marine wate	er sediment			2,9	m	g/kg		
Normal value for water, inter	mittent release			2,75	mş	g/l		
Normal value of STP microo	rganisms			580	m	g/l		
Normal value for the food cha	ain (secondary pois	oning)		0,38	m	g/kg		
Normal value for the terrestri	al compartment			0,63	m	g/kg		
Health - Derived no-effe		/ DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 87 mg/kg		systemic		systemic
Inhalation				bw/d 114 mg/m3				950 mg/m
Skin				206 mg/kg				343 mg/kg
				bw/d				bw/d
				<i>b</i> 11/ G				
				211/3				
Threshold Limit Value								
PROPAN-2-OL Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remark Observa		
Threshold Limit Value	Country	TWA/8h mg/m3	ppm		ppm	Remark Observa		
Threshold Limit Value	Country BGR		ppm	STEL/15min	ppm			
Threshold Limit Value Type		mg/m3	ppm	STEL/15min mg/m3	ppm			
Threshold Limit Value Type TLV	BGR	mg/m3 980	ppm 200	STEL/15min mg/m3 1225	ppm 400	Observa		
Threshold Limit Value Type TLV TLV	BGR CZE	mg/m3 980 500		STEL/15min mg/m3 1225 1000		Observa		
Threshold Limit Value Type TLV TLV AGW	BGR CZE DEU	mg/m3 980 500 500	200	STEL/15min mg/m3 1225 1000 1000	400	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV	BGR CZE DEU DEU	mg/m3 980 500 500 500	200 200	STEL/15min mg/m3 1225 1000 1000	400	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV	BGR CZE DEU DEU DNK	mg/m3 980 500 500 500 500 490	200 200 200	STEL/15min mg/m3 1225 1000 1000 1000	400 400	Observa		
Threshold Limit Value Type TLV TLV TLV AGW MAK TLV VLA VLEP	BGR CZE DEU DEU DEU DNK ESP	mg/m3 980 500 500 500 500 490	200 200 200	STEL/15min mg/m3 1225 1000 1000 1000	400 400 400	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP	BGR CZE DEU DEU DNK ESP FRA	mg/m3 980 500 500 500 490 500	200 200 200 200 200	STEL/15min mg/m3 1225 1000 1000 1000 1000 980	400 400 400 400 400	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP TLV AK	BGR CZE DEU DEU DEU DNK ESP FRA GRC	mg/m3 980 500 500 500 490 500 980	200 200 200 200 200	STEL/15min mg/m3 1225 1000 1000 1000 1000 980 1225	400 400 400 400 400	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP TLV AK GVI/KGVI	BGR CZE DEU DEU DEU ESP FRA GRC HUN	mg/m3 980 500 500 500 490 500 980 500	200 200 200 200 200 400	STEL/15min mg/m3 1225 1000 1000 1000 1000 980 1225 2000	400 400 400 400 400 500	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP TLV AK GVI/KGVI TGG	BGR CZE DEU DEU DNK ESP FRA GRC HUN HRV	mg/m3 980 500 500 500 490 500 980 500 980 500 999	200 200 200 200 200 400	STEL/15min mg/m3 1225 1000 1000 1000 1000 980 1225 2000	400 400 400 400 400 500	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP TLV AK GVI/KGVI TGG NDS/NDSCh	BGR CZE DEU DEU DNK ESP FRA GRC HUN HRV NLD	mg/m3 980 500 500 500 490 500 980 500 980 500 999 650	200 200 200 200 200 400	STEL/15min mg/m3 1225 1000 1000 1000 1000 980 1225 2000 1250	400 400 400 400 400 500	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP TLV AK GVI/KGVI TGG NDS/NDSCh	BGR CZE DEU DEU DNK ESP FRA GRC HUN HRV NLD POL	mg/m3 980 500 500 500 490 500 980 500 980 500 999 650 900	200 200 200 200 400 400	STEL/15min mg/m3 1225 1000 1000 1000 1000 1000 980 1225 2000 1225 2000 1250	400 400 400 400 400 500	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP TLV AK GVI/KGVI TGG NDS/NDSCh NPEL MV	BGR CZE DEU DEU DNK ESP FRA GRC HUN HRV NLD POL SVK	mg/m3 980 500 500 500 490 500 980 500 980 500 999 650 900 500	200 200 200 200 400 400 200	STEL/15min mg/m3 1225 1000 1000 1000 1000 1000 980 1225 2000 1225 2000 1250	400 400 400 400 400 500	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP TLV AK GVI/KGVI TGG NDS/NDSCh NPEL	BGR CZE DEU DEU DNK ESP FRA GRC HUN HRV NLD POL SVK SVN	mg/m3 980 500 500 500 490 500 980 500 999 650 900 500 500	200 200 200 200 400 400 200 200 200	STEL/15min mg/m3 1225 1000 1000 1000 1000 980 1225 2000 1225 2000 1250 1250	400 400 400 400 500 500	Observa		
Threshold Limit Value Type TLV TLV AGW MAK TLV VLA VLEP TLV AK GVI/KGVI TGG NDS/NDSCh NPEL MV WEL	BGR CZE DEU DEU DNK ESP FRA GRC HUN HRV NLD POL SVK SVN GBR	mg/m3 980 500 500 500 490 500 980 500 980 500 999 650 900 500 500 500 999	200 200 200 200 400 400 200 200 200 200	STEL/15min mg/m3 1225 1000 1000 1000 1000 980 1225 2000 1250 1250 1200 1250	400 400 400 500 500 500	Observa		



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page

8 of 20

				140,9	mg	g/l		
Normal value in marine water								
Normal value for fresh water	sediment			552	mç	g/kg/d		
Normal value for marine wate	er sediment			552	mç	g/kg/d		
Normal value for water, intern	nittent release			140,9	mg	g/I		
Normal value of STP microor	ganisms			2251	mç	g/l		
Normal value for the food cha	ain (secondary poison	ing)		160	mg	g/kg food		
Normal value for the terrestria	al compartment			28	mg	g/kg/d		
Health - Derived no-effe		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				26 mg/kg		0)0101110		oyotonno
Inhalation				bw/d 89 mg/m3				500 mg/m3
Skin				319 mg/kg bw/d				888 mg/kg bw/d
SODIUM p-CUMENESUL								
Predicted no-effect concentra	ition - PNEC							
Normal value in fresh water				0,23	mg			
Normal value in marine water				0,023	mg			
Normal value for fresh water				0,862		g/kg/d		
Normal value for marine wate	r sodimont			0,086	mg	g/kg/d		
Normal value of STP microor	ganisms			100	mç	g/l		
Normal value of STP microory Normal value for the terrestria	ganisms al compartment			100 0,037		g/l g/kg/d		
Normal value of STP microor	ganisms al compartment ct level - DNEL / [Effects on	DMEL			mç Effects on			
Normal value of STP microor, Normal value for the terrestria Health - Derived no-effe	ganisms al compartment ct level - DNEL / [DMEL Acute systemic	Chronic local	0,037 Chronic	mç	g/kg/d Acute	Chronic local	Chronic
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure	ganisms al compartment ct level - DNEL / I Effects on consumers		Chronic local	0,037 Chronic systemic 3,8 mg/kg	mg Effects on workers	g/kg/d	Chronic local	Chronic systemic
Normal value of STP microord Normal value for the terrestria Health - Derived no-effect Route of exposure Oral	ganisms al compartment ct level - DNEL / I Effects on consumers		Chronic local	0,037 Chronic systemic	mg Effects on workers	g/kg/d Acute	Chronic local	
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure	ganisms al compartment ct level - DNEL / I Effects on consumers		Chronic local	0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg	mg Effects on workers	g/kg/d Acute	Chronic local 0,096 mg/cm ²	systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure Oral Inhalation Skin	ganisms al compartment ct level - DNEL / I Effects on consumers			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3	mg Effects on workers	g/kg/d Acute		systemic 26,9 mg/m3
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure Oral Inhalation Skin BRONOPOL	ganisms al compartment ct level - DNEL / C Effects on consumers Acute local			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg	mg Effects on workers	g/kg/d Acute		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra	ganisms al compartment ct level - DNEL / C Effects on consumers Acute local			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg	mg Effects on workers	/kg/d Acute systemic		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra Normal value in fresh water	ganisms al compartment ct level - DNEL / I Effects on consumers Acute local			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d	Effects on workers Acute local	y/kg/d Acute systemic		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra Normal value in fresh water Normal value in marine water	ganisms al compartment ct level - DNEL / I Effects on consumers Acute local			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d 0,01	mg Effects on workers Acute local mg	y/kg/d Acute systemic		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra Normal value in fresh water Normal value for fresh water	ganisms al compartment ct level - DNEL / I Effects on consumers Acute local tion - PNEC			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d 0,01 0,001	mg Effects on workers Acute local	y/kg/d Acute systemic		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water states	ganisms al compartment ct level - DNEL / I Effects on consumers Acute local tion - PNEC sediment			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d 0,01 0,01 0,001 0,041	mg Effects on workers Acute local	g/kg/d Acute systemic g/l g/l g/kg		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra Normal value in marine water Normal value in marine water Normal value for fresh water since water Normal value for marine water	ganisms al compartment ct level - DNEL / I Effects on consumers Acute local			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d 0,01 0,001 0,001 0,001	Effects on workers Acute local	y/kg/d Acute systemic y/l y/l y/kg y/kg		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water states Normal value for marine water Normal value for marine water Normal value for marine water	ganisms al compartment ct level - DNEL / I Effects on Consumers Acute local tion - PNEC sediment r sediment nittent release ganisms			0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d 0,01 0,01 0,001 0,001 0,041 0,003 0,003	Effects on workers Acute local	y/kg/d Acute systemic y/l y/l y/kg y/kg		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water Normal value for marine water Normal value for marine water Normal value for marine water Normal value for marine water	ganisms al compartment ct level - DNEL / I Effects on consumers Acute local tion - PNEC sediment or sediment nittent release ganisms al compartment ct level - DNEL / I Effects on	Acute systemic		0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d 0,01 0,01 0,001 0,041 0,003 0,003 0,003 0,43	Effects on workers Acute local	y/kg/d Acute systemic y/l y/l y/kg y/kg y/kg y/l y/kg		systemic 26,9 mg/m3 136,25 mg/kg
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure Oral Inhalation Skin BRONOPOL Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for marine water	ganisms al compartment ct level - DNEL / I Effects on Consumers Acute local tion - PNEC sediment r sediment nittent release ganisms al compartment ct level - DNEL / I	Acute systemic		0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d 0,01 0,01 0,001 0,001 0,001 0,001 0,003 0,003 0,003 0,43 0,5 Chronic	Effects on workers Acute local	y/kg/d Acute systemic y/l y/l y/kg y/l y/kg y/l y/kg y/l y/kg y/l y/kg y/l		systemic 26,9 mg/m3 136,25 mg/kg bw/d
Normal value of STP microor Normal value for the terrestria Health - Derived no-effer Route of exposure Oral Inhalation Skin BRONOPOL	ganisms al compartment ct level - DNEL / I Effects on consumers Acute local tion - PNEC sediment r sediment nittent release ganisms al compartment ct level - DNEL / I Effects on consumers	Acute systemic	0,048 mg/cm ²	0,037 Chronic systemic 3,8 mg/kg bw/d 6,6 mg/m3 68,1 mg/kg bw/d 0,01 0,01 0,001 0,001 0,041 0,003 0,003 0,43 0,5	Effects on workers Acute local	y/kg/d Acute systemic y/l y/l y/kg y/kg y/l y/kg y/l y/kg	0,096 mg/cm ²	systemic 26,9 mg/m3 136,25 mg/kg bw/d



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page 9 of 20

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 /		
		mg/m3	ppm	mg/m3	ppm	Observatio	ns	
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 concentratio	n - PNEC							
Normal value in fresh water				0,1	mç	g/l		
Normal value in marine water				0,01	mg	g/l		
Normal value for fresh water see	diment			0,01	mg	g/kg		
Normal value for marine water s	ediment			1,49	mç	g/kg		
Normal value for water, intermitt	ent release			0,28	mç	g/I		
Normal value of STP microorga	nisms			10	mç	g/I		
Normal value for the terrestrial of	compartment			0,239	mį	g/kg		
Health - Derived no-effect	level - DNEL / DI 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		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.



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020
Revision n° 2
Rev. Date 11/11/2022
Page
10 of 20

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	Value 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	
pH	2.5 ± 0.4	
Kinematic viscosity	not available	



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page 11 of 20

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 haza	rd 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.



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page

12 of 20

ETHANOL

Avoid exposure to: sources of heat, naked flames.

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

10.5. Incompatible materials

Information not available

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 information Information not available 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 ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: >2000 mg/kg ATE (Dermal) of the mixture: Not classified (no significant component) CITRIC ACID MONOHYDRATE LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): 5400 mg/kg Mouse ETHANOL LD50 (Oral): > 5000 mg/kg Rat 120 mg/l/4h Pimephales promelas LC50 (Inhalation vapours): UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO) 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, PROPOXYLATED (>=2.5 MOLES EO/PO) LD50 (Oral): > 2000 mg/kg



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page

13 of 20

PROPAN-2-OL LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

SODIUM p-CUMENESULPHONATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation mists/powders):

BRONOPOL LD50 (Dermal): STA (Dermal):

LD50 (Oral): LC50 (Inhalation mists/powders):

MORPHOLINE LD50 (Dermal): STA (Dermal):

LD50 (Oral): LC50 (Inhalation vapours):

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

16,4 ml/kg Rat 5840 mg/kg bw Rat > 10000 ppm/6h Rat

2000 mg/kg bw > 7000 mg/kg 6410 mg/m³

64 mg/kg rat 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)

254 mg/kg rat 0,588 mg/l/4h rat

500 mg/kg Rabbit 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)

1050 mg/kg Rat 35,1 mg/l/1h Rat



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page 14 of 20

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	179 mg/l/96h
EC50 - for Crustacea	45 mg/l/48h
EC50 - for Algae / Aquatic Plants	51 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	31 mg/l 72h
SODIUM p-CUMENESULPHONATE	
LC50 - for Fish	1000 mg/l/96h
EC50 - for Crustacea	1000 mg/l/48h
EC50 - for Algae / Aquatic Plants	230 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	31 mg/l
BRONOPOL	
LC50 - for Fish	20 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	1,6 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,25 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,08 mg/l
CITRIC ACID MONOHYDRATE	
LC50 - for Fish	> 100 mg/l/96h
EC50 - for Crustacea	> 50 mg/l/48h
Chronic NOEC for Algae / Aquatic Plants	425 mg/l
	og,.
ETHANOL	
LC50 - for Fish	14200 mg/l/96h
EC50 - for Crustacea	454 mg/l/48h
EC50 - for Algae / Aquatic Plants	275 mg/l/72h
Chronic NOEC for Fish	250 mg/l
Chronic NOEC for Crustacea	96 mg/l
Chronic NOEC for Algae / Aquatic Plants	11,5 mg/l
PROPAN-2-OL	
LC50 - for Fish	8970 mg/l/96h Leuciscus idus melanotus



Conforms to Reg. (EU) 878/2020

EC50 - for Crustacea	9714 mg/l/24h Daphnia magna
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO)	
LC50 - for Fish	> 1 mg/l/96h
EC50 - for Crustacea	> 1 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	1,7 mg/l
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO) LC50 - for Fish	> 1 mg/l/96h
EC50 - for Crustacea	> 1 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	1,7 mg/l
12.2. Persistence and degradability	
MORPHOLINE	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
SODIUM p-CUMENESULPHONATE	
Rapidly degradable	
BRONOPOL	
Solubility in water	286000 mg/l
Rapidly degradable	
CITRIC ACID MONOHYDRATE	
Rapidly degradable	
ETHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
PROPAN-2-OL	
Rapidly degradable	
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO) Rapidly degradable	
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO) Rapidly degradable	
12.3. Bioaccumulative potential	



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020
Revision n° 2
Rev. Date 11/11/2022
Page
16 of 20

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	-0,6196

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

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.



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page 17 of 20

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	75
Point	75

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



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision n° 2 Rev. Date 11/11/2022 Page

18 of 20

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 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.



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020 Revision nº 2 Rev. Date 11/11/2022 Page 19 of 20

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

I EGEND.

H411

- 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

- Regulation (EC) 1907/2006 (REACH) of the European Parliament
 Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 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
- 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



Conforms to Reg. (EU) 878/2020

Issued on 15/12/2020	
Revision n° 2	
Rev. Date 11/11/2022	
Page	
20 of 20	

- 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.