

Conforms to Reg. (EU) 878/2020

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SECTION 1. Identification of the subs	tance/mixture and	l of the company/un	dertaking
1.1. Product identifier			
Code:	F_367		
Product name	GEL Dishwasher		
UFI :	TCS3-T0YW-W000-WE2	2	
1.2. Polovant identified uses of the substance or m	ivturo and usos advisad	against	
1.2. Relevant identified uses of the substance or m Identified Uses	Industrial	Professional	Consumer
dishwasher detergent	-	~	~
Uses Advised Against			
Do not use for uses other than those indicated			
1.3. Details of the supplier of the safety data sheet			
Name	NEW FADOR S.r.I.		
Full address District and Country	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		
responsible for the Salety Data Sheet	mownewiador.it		
1.4. Emergency telephone number			
For urgent inquiries refer to	NEW FADOR S.r.I.		
	+39 030961 243		
	(08.30 - 17.30)		
CECTION 2. Horondo identification			
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 (	FC) Regulation 1272/2008 (	CLP) (and subsequent amendments and
supplements). The product thus requires a safety datasl	heet that complies with the	provisions of (EU) Regulation	1 2020/878.
Any additional information concerning the risks for healt	h and/or the environment a	are given in sections 11 and 1	2 of this sheet.
I leave a classification and indication.			
Hazard classification and indication: Serious eye damage, category 1	H318	Causes serious eye da	amage.
		·····,···,	
2.2. Label elements			
Hazard labelling pursuant to EC Regulation 1272/2008	(CLP) and subsequent am	endments and supplements.	
Hazard pictograms:			



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Signal words: Danger Hazard statements: H318 Causes serious eye damage. Contains: 2-OCTYL-2H-ISOTHIAZOL-3-ONE, 1,2-BENZISOTHIAZOL-3(2H)- ONE EUH208 May produce an allergic reaction. Precautionary statements: P102 Keep out of reach of children. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina. P280 Wear eye protection / face protection. P310 Immediately call a POISON CENTER. P101 If medical advice is needed, have product container or label at hand. UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO) Contains: 1-TRIDECANOL, MONOETHER WITH POLYETHYLENE GLYCOL Ingredients according to Regulation (EC) No. 648/2004 Less than 5% anionic surfactants 5% or over but less than non-ionic surfactants 15% enzymes perfumes, Citral, Limonene Preservation agents: OCTYLISOTHIAZOLINONE, 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



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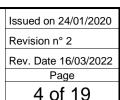
Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
TETRASODIUM N,N- BIS(CARBOXYLATOMETHYL)-L- GLUTAMATE CAS 51981-21-6	3≤x< 3,5	Met. Corr. 1 H290
EC 257-573-7		
INDEX -		
REACH Reg. 01-2119493601-38		
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO)		
CAS -	3 ≤ x < 3,5	Acute Tox. 4 H302, Eye Dam. 1 H318
EC 940-634-3		STA Oral: 500 mg/kg
INDEX -		
1-TRIDECANOL, MONOETHER WITH POLYETHYLENE GLYCOL CAS 24938-91-8	2 ≤ x < 2,5	Acute Tox. 4 H302, Eye Dam. 1 H318
EC 607-463-3		STA Oral: 500 mg/kg
INDEX -		
L-GLUTAMIC ACID, N-COCO ACYL DERIVS., DISODIUM SALTS CAS 68187-30-4	1≤x< 1,5	Eye Irrit. 2 H319, Aquatic Chronic 3 H412
EC 269-085-1		
INDEX -		
REACH Reg. 01-2119961354-36		
1,2-BENZISOTHIAZOL-3(2H)- ONE		
CAS 2634-33-5	0 ≤ x < 0,05	Acute Tox. 1 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 Skin Sens. 1 H317: ≥ 0,05%
EC 220-120-9		
INDEX 613-088-00-6		STA Oral: 500 mg/kg, STA Inhalation vapours: 0,05 mg/l, STA Inhalation mists/powders: 0,005 mg/l
REACH Reg. 01-2120761540-60		
2-OCTYL-2H-ISOTHIAZOL-3-ONE		
CAS 26530-20-1	0 ≤ x < 0,0015	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1 H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071
EC 247-761-7		Skin Sens. 1A H317: ≥ 0,0015%
INDEX 613-112-00-5		LD50 Oral: 125 mg/kg, LD50 Dermal: 311 mg/kg, LC50 Inhalation mists/powders: 0.27 mg/l
MORPHOLINE		
CAS 110-91-8	0 ≤ x < 0,05	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4
EC 203-815-1		H332, Skin Corr. 1B H314, Eye Dam. 1 H318 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** 



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#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### 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 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.



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#### 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. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 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. 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
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	Bekendtørelse 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``»
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 Praviľnika 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



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SVK	Slovensko		Slovenskej repul expozíciou karci	_ÁDY Slovenskej bliky č. 356/2006 ž nogénnym a muta	Z. z. o ochrane zo génnym faktoron	dravia zamestna n pri práci v zner	ncov pred rizik		vlády
GBR EU	United Kingdom OEL EU		Directive (EU) 20 Directive (EU) 20		re (EÚ) 2019/130 2009/161/EU; D	; Directive (EU) 2 irective 2006/15/		ctive (EU) 2017/239 2004/37/EC; Directi	
	TLV-ACGIH		ACGIH 2021	ective 30/24/20, 1		-20.			
TETRASO	DIUM N,N-BIS(CA	RBOXYLATO	METHYL)-L-GLU	ТАМАТЕ					
Predicted no-	-effect concentration	- PNEC							
Normal value	e in fresh water				9,45	mg	/I		
Normal value	e in marine water				0,945	mg	/I		
Normal value	e for water, intermitter	nt release			0,953	mg	/I		
Normal value	e of STP microorganis	sms			41,2	mg	ı/I		
Normal value	e for the terrestrial cor	mpartment			50	mg	/kg		
Health - De	erived no-effect le	Effects on consumers	DMEL			Effects on workers			
Route of expo	oosure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral					systemic 1,5 mg/kg bw/d		systemic		systemic
Inhalation					1,8 mg/m3				7,3 mg/m3
					7500 mg/kg				15000 mg/kg
Skin					bw/d				DW/Q
Skin					bw/d				bw/d
L-GLUTAM	IIC ACID, N-COCO		/S., DISODIUM S	ALTS	bw/d				bw/d
L-GLUTAM Predicted no-			VS., DISODIUM S	ALTS	bw/d	mg	//		bw/d
L-GLUTAM Predicted no- Normal value	effect concentration		VS., DISODIUM S	ALTS		mg			bw/d
L-GLUTAM Predicted no- Normal value Normal value	e ffect concentration	- PNEC	VS., DISODIUM S	ALTS	0,022		//		
L-GLUTAM Predicted no- Normal value Normal value	e in fresh water e in marine water	- PNEC	VS., DISODIUM S	ALTS	0,022 0,002	mg	/l //kg		bw/d
L-GLUTAM Predicted no- Normal value Normal value Normal value	e-effect concentration e in fresh water e in marine water e for fresh water sedir	- PNEC	/S., DISODIUM S	ALTS	0,022 0,002 0,639	mg	/l /kg /kg		
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value	e in fresh water e in marine water e in marine water e for fresh water sedir e for marine water sed	- PNEC nent diment		ALTS	0,022 0,002 0,639 0,064	mg mg mg mg	/l /kg /kg		
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value	e-effect concentration e in fresh water e in marine water e for fresh water sedir e for marine water sed e of STP microorganis	- PNEC nent diment sms econdary poison		ALTS	0,022 0,002 0,639 0,064 100	mg mg mg mg	// /kg // //		
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value	e-effect concentration e in fresh water e in marine water e for fresh water sedir e for marine water sed e of STP microorganis e for the food chain (s	- PNEC ment diment sms econdary poison mpartment evel - DNEL / C Effects on	ing)	ALTS	0,022 0,002 0,639 0,064 100 133,3	mg mg mg mg Effects on	// /kg // //		
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value Health - De	e-effect concentration e in fresh water e in marine water e for fresh water sedir e for marine water sedir e of STP microorganis e for the food chain (s e for the terrestrial con erived no-effect le	- PNEC ment diment sms econdary poison mpartment evel - DNEL / I	ing)	Chronic local	0,022 0,002 0,639 0,064 100 133,3 0,115 Chronic systemic	mg mg mg mg mg mg	// /kg // //	Chronic local	Chronic systemic
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value Normal value	e-effect concentration e in fresh water e in marine water e for fresh water sedir e for marine water sedir e of STP microorganis e for the food chain (s e for the terrestrial con erived no-effect le	- PNEC nent diment sms econdary poison mpartment evel - DNEL / L Effects on consumers	ing) DMEL		0,022 0,002 0,639 0,064 100 133,3 0,115 Chronic	mg mg mg mg mg Effects on workers	/l /kg /kg /l /kg /kg Acute	Chronic local	Chronic
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value Health - De	e-effect concentration e in fresh water e in marine water e for fresh water sedir e for marine water sedir e of STP microorganis e for the food chain (s e for the terrestrial con erived no-effect le	- PNEC nent diment sms econdary poison mpartment evel - DNEL / L Effects on consumers	ing) DMEL		0,022 0,002 0,639 0,064 100 133,3 0,115 Chronic systemic 30 mg/kg	mg mg mg mg mg Effects on workers	/l /kg /kg /l /kg /kg Acute	Chronic local	Chronic
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value Health - De Route of expo Oral Skin	-effect concentration e in fresh water e in marine water e for fresh water sedir e for fresh water sedir e for marine water sed e of STP microorganis e for the food chain (s e for the food chain (s e for the terrestrial con erived no-effect le	- PNEC nent diment sms econdary poison mpartment evel - DNEL / L Effects on consumers	ing) DMEL		0,022 0,002 0,639 0,064 100 133,3 0,115 Chronic systemic 30 mg/kg bw/d 30 mg/kg	mg mg mg mg mg Effects on workers	/l /kg /kg /l /kg /kg Acute	Chronic local	Chronic systemic 60 mg/kg
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value Health - De Route of expo Oral Skin	e-effect concentration e in fresh water e in marine water e for fresh water sedir e for marine water sedir e for marine water sed e of STP microorganis e for the food chain (s e for the terrestrial con erived no-effect le	- PNEC nent diment sms econdary poison mpartment evel - DNEL / L Effects on consumers	ing) DMEL		0,022 0,002 0,639 0,064 100 133,3 0,115 Chronic systemic 30 mg/kg bw/d 30 mg/kg	mg mg mg mg mg Effects on workers	// /kg /kg // /kg Acute systemic Remarks	5/	Chronic systemic 60 mg/kg
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value Route of expo Oral Skin MORPHOL Threshold	-effect concentration e in fresh water e in marine water e for fresh water sedir e for fresh water sedir e for marine water sed e of STP microorganis e for the food chain (s e for the food chain (s e for the terrestrial con erived no-effect le	- PNEC nent diment sms econdary poison mpartment <b>Effects on</b> consumers Acute local	ing) DMEL Acute systemic		0,022 0,002 0,639 0,064 100 133,3 0,115 Chronic systemic 30 mg/kg bw/d 30 mg/kg bw/d	mg mg mg mg mg Effects on workers	// /kg // /kg /kg Acute systemic	5/	Chronic systemic 60 mg/kg
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value Health - De Route of expo Oral Skin MORPHOL Threshold	-effect concentration e in fresh water e in marine water e for fresh water sedir e for fresh water sedir e for marine water sed e of STP microorganis e for the food chain (s e for the food chain (s e for the terrestrial con erived no-effect le	- PNEC nent diment sms econdary poison mpartment <b>Effects on</b> consumers Acute local	ing) DMEL Acute systemic	Chronic local	0,022 0,002 0,639 0,064 100 133,3 0,115 Chronic systemic 30 mg/kg bw/d 30 mg/kg bw/d STEL/15min	Effects on workers Acute local	// /kg /kg // /kg Acute systemic Remarks	5/	Chronic systemic 60 mg/kg
L-GLUTAM Predicted no- Normal value Normal value Normal value Normal value Normal value Normal value Health - De Route of expo Oral Skin MORPHOL Threshold Type	-effect concentration e in fresh water e in marine water e for fresh water sedir e for fresh water sedir e for marine water sed e of STP microorganis e for the food chain (s e for the food chain (s e for the terrestrial con erived no-effect le	- PNEC nent diment sms econdary poison mpartment evel - DNEL / I Effects on consumers Acute local Country	ing) DMEL Acute systemic TWA/8h mg/m3	Chronic local	0,022 0,002 0,639 0,064 100 133,3 0,115 Chronic systemic 30 mg/kg bw/d 30 mg/kg bw/d STEL/15min	Effects on workers Acute local	// /kg /kg /kg /kg Acute systemic Remarks Observa	5/	Chronic systemic 60 mg/kg



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MAK DEU 36 10 72 20 TLV DNK 36 10 SKIN VLA ESP 36 10 20 72 VLEP FRA 10 72 20 36 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 20 SKIN NI D 10 72 36 VLE PRT 10 72 20 36 NDS/NDSCh POL 36 72 NPEL SVK 36 10 72 WEL GBR 36 10 72 20 SKIN OEL FU 36 10 72 20 71 20 SKIN TLV-ACGIH Predicted no-effect concentration - PNEC Normal value in fresh water 0,1 mg/l Normal value in marine water 0,01 mg/l Normal value for fresh water sediment 0.01 mg/kg 1.49 Normal value for marine water sediment mg/kg Normal value for water, intermittent release 0,28 mg/l Normal value of STP microorganisms 10 mg/l Normal value for the terrestrial compartment 0,239 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Chronic Acute Chronic local Route of exposure Acute systemic Chronic local Chronic Acute local Acute local systemic systemic systemic Oral 38 mg/kg bw/d 6,3 mg/kg bw/d Inhalation 18 mg/m3 36 mg/m3 3,2 mg/m3 45 mg/m3 91 ma/m3 0,52 mg/kg Skin 1,04 mg/kg bw/d 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.

#### 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.



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#### 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	Value	Information
Appearance	liquid	
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	Not available	
Auto-ignition temperature	Not available	
рН	10	
Kinematic viscosity	Not available	
Dynamic viscosity	3000 ± 500 mPa*s	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	Not available	
Relative vapour density	Not available	



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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

Explosive properties

Oxidising properties

not classified as explosive, contains no explosive substances according to CLP Art. (14 (2)) 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.

#### 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

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

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

### **SECTION 11. Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



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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) TETRASODIUM N,N-BIS(CARBOXYLATOMETHYL)-L-GLUTAMATE LD50 (Dermal): > 2000 mg/kg rat LD50 (Oral): > 2000 mg/kg rat > 4,2 mg/l/4h rat LC50 (Inhalation mists/powders): 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) 1-TRIDECANOL, MONOETHER WITH POLYETHYLENE GLYCOL 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) L-GLUTAMIC ACID, N-COCO ACYL DERIVS., DISODIUM SALTS LD50 (Dermal): > 5000 mg/kg rat LD50 (Oral): > 2000 mg/kg rat



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311 mg/kg

125 mg/kg

0,27 mg/l

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#### 2-OCTYL-2H-ISOTHIAZOL-3-ONE

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

#### MORPHOLINE

LD50 (Dermal): STA (Dermal): 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)

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

May produce an allergic reaction. Contains: 2-OCTYL-2H-ISOTHIAZOL-3-ONE 1,2-BENZISOTHIAZOL-3(2H)- ONE

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class



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#### 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



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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**

#### 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
TETRASODIUM N,N- BIS(CARBOXYLATOMETHYL)-L- GLUTAMATE LC50 - for Fish EC50 - for Crustacea Chronic NOEC for Fish	> 95,26 mg/l/96h > 95,26 mg/l/48h 94,55 mg/l 9d
Chronic NOEC for Crustacea	224 mg/l 21d
L-GLUTAMIC ACID, N-COCO ACYL DERIVS., DISODIUM SALTS LC50 - for Fish EC50 - for Crustacea	62,4 mg/l/96h 49 mg/l/48h



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EC50 - for Algae / Aquatic Plants	32,56 mg/l/72h
Chronic NOEC for Crustacea	0,218 mg/l 21d
Chronic NOEC for Algae / Aquatic Plants	11,25 mg/l 72h
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	
	1000 10000 mg/
Solubility in water Rapidly degradable	1000 - 10000 mg/l
Kapiuly degradable	
TETRASODIUM N,N-	
BIS(CARBOXYLATOMETHYL)-L- GLUTAMATE	
Rapidly degradable	
L-GLUTAMIC ACID, N-COCO ACYL DERIVS., DISODIUM SALTS	
Rapidly degradable	
UNDECANOL, BRANCHED AND LINEAR,	
ETHOXYLATED, PROPOXYLATED (>=2.5 MOLES EO/PO)	
Rapidly degradable 12.3. Bioaccumulative potential	
12.3. Dioaccumulative potential	
MORPHOLINE	
Partition coefficient: n-octanol/water	-2,55
BCF	< 2,8
12.4. Mobility in soil	
MORPHOLINE	0.0100
Partition coefficient: soil/water	-0,6196
TETRASODIUM N,N- BIS(CARBOXYLATOMETHYL)-L-	
GLUTAMATE	
Partition coefficient: soil/water	< 1,5
12.5. Results of PBT and vPvB assessment	

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.



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#### 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.

### **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



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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**

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

— • •

Contained substance

Point

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

75

3 - 40

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:



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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.

1

#### 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. 3	Flammable liquid, category 3
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 1	Acute toxicity, category 1
Acute Tox. 3	Acute toxicity, category 3
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.



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#### 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)
- 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
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
   Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
   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)
- 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



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#### 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 / 08 / 09 / 11 / 12 / 15 / 16.