

Conforms to Reg. (EU) 878/2020

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SECTION 1. Identification of the subs	tance/mixture and of	the company/underta	king
<b>1.1. Product identifier</b> Code: Product name UFI :	F_55 Vinegar Scented DISHWASH NR40-S0E3-100Q-1HHE	IING DETERGENT	
<b>1.2. Relevant identified uses of the substance or m</b> Identified Uses Dish detergent	nixture and uses advised agai Industrial	Professional	Consumer
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		
e-mail address of the competent person	www.newrador.it		
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.		
	+39 030961 243		
	(08.30 - 17.30)		
<b>SECTION 2. Hazards identification</b>			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to th supplements). The product thus requires a safety datasl Any additional information concerning the risks for healt	heet that complies with the prov	isions of (EU) Regulation 2020/8	378.
Ranked in accordance with the ICE-PH-15/0338 report			
Hazard classification and indication: Eye irritation, category 2	H319	Causes serious eye irritation.	
2.2. Label elements			
Hazard labelling pursuant to EC Regulation 1272/2008	(CLP) and subsequent amendm	ents and supplements.	
Hazard pictograms:			



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Signal words:	Warning			
-	-			
Hazard statements:				
H319	Causes se	erious eye irritation	n.	
Precautionary statement	s:			
P101 P102 P280 P305+P351+P338	Keep out o Wear prote IF IN EYE rinsing.	of reach of childrer ective gloves / eye S: Rinse cautiousl	e protection / face protection. Iy with water for several minutes. Remove contac	ct lenses, if present and easy to do. Conti
P337+P313	If eye irrita	ation persists: Get	medical advice / attention.	
Ingredients according to	Regulation (EC	<u>C) No. 648/2004</u>		
		factoria amphata	aria aurfactanta	
Less than 5%	anionic su	rfactants, amphote	enc surfactants	
Less than 5% perfumes, Limonene	anionic su	mactants, ampriote		
perfumes, Limonene			omo-2-Nitropropane-1,3-Diol	
perfumes, Limonene				
perfumes, Limonene Preservation agents: Glu 2.3. Other hazards	ıtaral, Benzisot	hiazolinone, 2-Bro		
perfumes, Limonene Preservation agents: Glu 2.3. Other hazards On the basis of available	itaral, Benzisot e data, the prod	hiazolinone, 2-Bro	omo-2-Nitropropane-1,3-Diol	
perfumes, Limonene Preservation agents: Glu 2.3. Other hazards On the basis of available	itaral, Benzisot e data, the prod	hiazolinone, 2-Bro	omo-2-Nitropropane-1,3-Diol ain any PBT or vPvB in percentage ≥ than 0,1%.	
perfumes, Limonene Preservation agents: Glu <b>2.3. Other hazards</b> On the basis of available The product does not co	utaral, Benzisot e data, the prod ntain substance	hiazolinone, 2-Bro luct does not conta es with endocrine	omo-2-Nitropropane-1,3-Diol ain any PBT or vPvB in percentage ≥ than 0,1%.	
perfumes, Limonene Preservation agents: Glu <b>2.3. Other hazards</b> On the basis of available The product does not co	utaral, Benzisot e data, the prod ntain substance	hiazolinone, 2-Bro luct does not conta es with endocrine	omo-2-Nitropropane-1,3-Diol ain any PBT or vPvB in percentage ≥ than 0,1%. disrupting properties in concentration ≥ 0.1%.	
perfumes, Limonene Preservation agents: Glu 2.3. Other hazards On the basis of available The product does not cc SECTION 3. Co	utaral, Benzisot e data, the prod ntain substance	hiazolinone, 2-Bro luct does not conta es with endocrine	omo-2-Nitropropane-1,3-Diol ain any PBT or vPvB in percentage ≥ than 0,1%. disrupting properties in concentration ≥ 0.1%.	
perfumes, Limonene Preservation agents: Glu 2.3. Other hazards On the basis of available The product does not co SECTION 3. Co 3.1. Substances	utaral, Benzisot e data, the prod ntain substance	hiazolinone, 2-Bro luct does not conta es with endocrine	omo-2-Nitropropane-1,3-Diol ain any PBT or vPvB in percentage ≥ than 0,1%. disrupting properties in concentration ≥ 0.1%.	
perfumes, Limonene Preservation agents: Glu 2.3. Other hazards On the basis of available The product does not co SECTION 3. Co 3.1. Substances Information not relevant	utaral, Benzisot e data, the prod ntain substance	hiazolinone, 2-Bro luct does not conta es with endocrine	omo-2-Nitropropane-1,3-Diol ain any PBT or vPvB in percentage ≥ than 0,1%. disrupting properties in concentration ≥ 0.1%.	
perfumes, Limonene Preservation agents: Glu 2.3. Other hazards On the basis of available The product does not co SECTION 3. Co 3.1. Substances Information not relevant 3.2. Mixtures	utaral, Benzisot e data, the prod ntain substance	hiazolinone, 2-Bro luct does not conta es with endocrine	omo-2-Nitropropane-1,3-Diol ain any PBT or vPvB in percentage ≥ than 0,1%. disrupting properties in concentration ≥ 0.1%.	
perfumes, Limonene Preservation agents: Glu 2.3. Other hazards On the basis of available The product does not co SECTION 3. Co 3.1. Substances Information not relevant 3.2. Mixtures Contains:	ataral, Benzisot e data, the prod ntain substance mposition,	hiazolinone, 2-Bro luct does not conta es with endocrine /information	omo-2-Nitropropane-1,3-Diol ain any PBT or vPvB in percentage ≥ than 0,1%. disrupting properties in concentration ≥ 0.1%. on ingredients	



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EC 270-115-0		Aquatic Chronic 3 H412 LD50 Oral: 1080 mg/kg
INDEX -		
REACH Reg. 01-2119489428-22		
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS		
CAS 68891-38-3	1,5≤x< 2	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 500-234-8		Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 5%
INDEX -		
REACH Reg. 01-2119488639-16		
ACETIC ACID 0,048%		
CAS 64-19-7	0 ≤ x < 0,05	Flam. Liq. 3 H226, Skin Corr. 1A H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B
EC 200-580-7		Skin Corr. 1A H314: $\ge$ 90%, Skin Corr. 1B H314: $\ge$ 25%, Skin Irrit. 2 H315: $\ge$ 10%, Eye Dam. 1 H318: $\ge$ 25%, Eye Irrit. 2 H319: $\ge$ 10%
INDEX 607-002-00-6		
REACH Reg. 01-2119475328-30		
2-BROMO-2-NITROPROPAN-1,3-		
DIOL 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		
ETHYL ACETATE		
CAS 141-78-6	0 ≤ x < 0,05	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 205-500-4		
INDEX 607-022-00-5		
REACH Reg. 01-2119475103-46		

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.



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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 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 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

#### 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.



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#### 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 2020г.)
CZE	Česká Republika	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	Deserve	
	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``»
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)
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, 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



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TLV-ACGIH

2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2021

	n - PNEC							
Normal value in fresh water				0,268	mg	g/l		
Normal value in marine water	Normal value in marine water					g/l		
Normal value for fresh water sed	liment			8,1	mg	j/kg		
Normal value for marine water se	ediment			6,8	mg	j/kg		
Normal value for water, intermitte	ent release			0,017	mg	g/I		
Normal value of STP microorgan	isms			3,43	mg	g/I		
Normal value for the terrestrial c	ompartment			35	mg	j/kg		
Health - Derived no-effect	level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute	Chronic local	Chronic
Oral				0,425 mg/kg		systemic		systemic
Inhalation			1,5	bw/d 1,5 mg/m3			6	6 mg/m3
Skin				42,5 mg/kg bw/d				85 mg/kg bw/d
Normal value in fresh water				0,24	mg			
ALCOHOLS, C12-14, ETHO Predicted no-effect concentration								
	l' 4							
Normal value for fresh water sed				0,917		ŋ/kg		
Normal value for marine water so				0,092		g/kg		
Normal value for water, intermitte				0,071	mg			
Normal value of STP microorgan				10	g/l			
Normal value for the terrestrial c	•			7,5	mç	j/kg		
Health - Derived no-effect	Effects on consumers	DWEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				15 mg/kg				
Inhalation				bw/d 52 mg/m3				175 mg/m3
Skin				1650 mg/kg bw/d				2750 mg/kg bw/d
ACETIC ACID 0,048%								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
	BGR	25		37				
TLV								
TLV TLV	CZE	25		35				
	CZE DEU	25 25	10	35 50	20			



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TLV	DNK	25	10					
VLA	ESP	25	10	37	15			
VLEP	FRA			25	10			
TLV	GRC	25	10	37	15			
AK	HUN	25		25				
GVI/KGVI	HRV	25	10					
VLE	PRT	25	10					
NDS/NDSCh	POL	15		30				
NPEL	SVK	25	10					
MV	SVN	25	10					
OEL	EU	25	10	50	20			
TLV-ACGIH		25	10	37	15			
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				3,058	mg	g/l		
Normal value in marine wate	r			0,306	mg	g/l		
Normal value for fresh water	sediment			11,36	mg	j/kg		
Normal value for marine wate	er sediment			1,136	mg	j/kg		
Normal value for water, interr	mittent release			30,58	mg	g/l		
Normal value of STP microor	ganisms			85	mg	g/l		
Normal value for the terrestri	-			0,47	mg	j/kg		
Health - Derived no-effe	Effects on	MEL			Effects on			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	25 mg/m3		25 mg/m3	systemic	25 mg/m3	Systemic	25 mg/m3	Systemic
2-BROMO-2-NITROPRO Predicted no-effect concentra								
Normal value in fresh water				0,01	mç	g/l		
Normal value in marine wate	r			0,001	mg	g/l		
Normal value for fresh water	sediment			0,041	mg	j/kg		
Normal value for marine wate	er sediment			0,003	mg	j/kg		
Normal value for water, intern	mittent release			0,003	mg	g/l		
Normal value of STP microor	ganisms			0,43	mg	g/l		
Normal value for the terrestri	al compartment			0,5	mg	j/kg		
Health - Derived no-effe	ect 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		1,1 mg/kg bw/d		0,35 mg/kg		Systemic		Systemic
		·,· · · · · · · · · · · · · · ·		hw/d				
Inhalation	1,3 mg/m3	3,7 mg/m3	1,3 mg/m3	bw/d 1,2 mg/m3	4,2 mg/m3	12,3 mg/m3	4,2 mg/m3	4,1 mg/m3

### ETHYL ACETATE Threshold Limit Value



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Туре	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	800						
TLV	CZE	700		900				
AGW	DEU	1500	400	3000	800			
MAK	DEU	1500	400	3000	800			
TLV	DNK	540	150					
VLA	ESP	1460	400					
VLEP	FRA	1400	400					
TLV	GRC	1400	400					
AK	HUN	1400		1400				
GVI/KGVI	HRV		200		400			
TGG	NLD	550		1100				
NDS/NDSCh	POL	200		600				
NPEL	SVK	1500	400	3000				
WEL	GBR		200		400			
OEL	EU	734	200	1468	400			
TLV-ACGIH		1441	400					
Health - Derived no-ef		DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						1468 mg/m3		734 mg/m3

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 =

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



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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

<b>Properties</b> Appearance	<b>Value</b> liquid	Information
Colour	Orange	
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	
Decomposition temperature	not available	
pH	$5.5 \pm 0.5$	
Kinematic viscosity	not available	
Dynamic viscosity	450 ± 100 mPa	
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	
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

not classified as explosive, contains no explosive substances according to CLP



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Oxidising properties

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.

2-BROMO-2-NITROPROPAN-1,3-DIOL Decomposes on contact with: water, metals, strong bases.

ETHYL ACETATE Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 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.

#### ACETIC ACID 0,048%

Risk of explosion on contact with: chromium (VI) oxide, potassium permanganate, sodium peroxide, perchloric acid, phosphorus chloride, hydrogen peroxide. May react dangerously with: alcohols, bromine pentafluoride, chlorosulphuric acid, dichromate-sulphuric acid, ethane diamine, ethylene glycol, potassiun hydroxide, strong bases, sodium hydroxide, strong oxidising agents, nitric acid, ammonium nitrate, potassium tert-butoxide, oleum. Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

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

ACETIC ACID 0,048% Avoid exposure to: sources of heat, naked flames.

2-BROMO-2-NITROPROPAN-1,3-DIOL Avoid exposure to: light, UV rays, moisture.

ETHYL ACETATE Avoid exposure to: light, sources of heat, naked flames.

#### 10.5. Incompatible materials

ACETIC ACID 0,048% Incompatible with: carbonates, hydroxides, phosphates, oxidising substances, bases.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, aluminium, nitrates, chlorosulphuric acid. Incompatible materials: plastic materials.



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#### 10.6. Hazardous decomposition products

2-BROMO-2-NITROPROPAN-1,3-DIOL 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) >2000 mg/kg ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS LD50 (Dermal): > 2000 mg/kg rat LD50 (Oral): 1080 mg/kg rat ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS LD50 (Dermal): > 2000 mg/kg rat LD50 (Oral): > 2000 mg/kg rat ACETIC ACID 0,048% LD50 (Dermal): 1060 mg/kg Rabbit LD50 (Oral): 3310 mg/kg Rat 11,4 mg/l/4h Rat LC50 (Inhalation vapours): 2-BROMO-2-NITROPROPAN-1,3-DIOL LD50 (Dermal): 64 mg/kg rat 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Dermal): (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 **SKIN CORROSION / IRRITATION** Does not meet the classification criteria for this hazard class SERIOUS EYE DAMAGE / IRRITATION Causes serious eye irritation 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



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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

2-BROMO-2-NITROPROPAN-1,3-DIOL	
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
ACETIC ACID 0,048%	
LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	> 300,82 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h
BENZENESULFONIC ACID, C10-13-ALKYL	
DERIVS., SODIUM SALTS LC50 - for Fish	1,67 mg/l/96h
EC50 - for Crustacea	2,9 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,91 mg/l/72h
	-,



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Chronic NOEC for Fish	0,23 mg/l 72d
Chronic NOEC for Crustacea	0,5 mg/l 7d
Chronic NOEC for Algae / Aquatic Plants	0,5 mg/l 96h
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS LC50 - for Fish	> 1 mg/l/96h Danio rerio
EC50 - for Crustacea	7,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	27 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Fish	0,14 mg/l 28d Oncorhynchus mykiss
Chronic NOEC for Crustacea	0,18 mg/l 21d Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,93 mg/l Desmodesmus subspicatus
	0,00 mg, 200.00000 0020p.0000
12.2. Persistence and degradability	
ETHYL ACETATE	
Solubility in water	> 10000 mg/l
Rapidly degradable	
2-BROMO-2-NITROPROPAN-1,3-DIOL	
Solubility in water	286000 mg/l
Rapidly degradable	200000 mg/
ACETIC ACID 0,048%	
Solubility in water	> 10000 mg/l
Rapidly degradable	
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS Rapidly degradable	
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS Rapidly degradable	
12.3. Bioaccumulative potential	
ETHYL ACETATE	
Partition coefficient: n-octanol/water	0,68
BCF	30
2-BROMO-2-NITROPROPAN-1,3-DIOL	
Partition coefficient: n-octanol/water	0,22
BCF	3,16
ACETIC ACID 0,048%	
Partition coefficient: n-octanol/water	-0,17
BENZENESULFONIC ACID, C10-13-ALKYL	



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DERIVS., SODIUM SALTS BCF	159
12.4. Mobility in soil	
ACETIC ACID 0,048%	
Partition coefficient: soil/water	1,153
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS Partition coefficient: soil/water	0,34

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

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



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#### 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

Contained substance Point

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

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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.



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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. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
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.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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



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- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (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
- Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

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