

Conforms to Reg. (EU) 878/2020

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

1.1. Product identifier

Code:

Vinegar Scented DISHWASHING DETERGENT Product name UFI:

NR40-S0E3-100Q-1HHE

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

Identified Uses Industrial Professional Consumer Dish detergent **Uses Advised Against**

Do not use for uses other than those indicated

1.3. Details of the supplier of the safety data sheet

NEW FADOR S.r.I. Name Full address via Mario Calderara, 31 District and Country 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

NEW FADOR S.r.I. For urgent inquiries refer to

+39 030961 243

(08.30 - 17.30)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Ranked in accordance with the ICE-PH-15/0338 report

Hazard classification and indication:

H319 Eye irritation, category 2 Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms:



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Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+P313 If eye irritation persists: Get medical advice / attention.

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

Less than 5% anionic surfactants, amphoteric surfactants

perfumes, Limonene

Preservation agents: Glutaral, Benzisothiazolinone, 2-Bromo-2-Nitropropane-1,3-Diol

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM

SALTS

CAS 68411-30-3 $2,5 \le x < 3$

Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,



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Aquatic Chronic 3 H412 EC 270-115-0 LD50 Oral: 1080 mg/kg

INDEX -

REACH Reg. 01-2119489428-22

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

CAS 68891-38-3

Eye Dam. 1 H318, $1,5 \le x < 2$ Skin Irrit. 2 H315,

Aquatic Chronic 3 H412

Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 5%

INDFX -

EC 500-234-8

REACH Reg. 01-2119488639-16

ACETIC ACID 0,048%

CAS 64-19-7 $0 \le x < 0.05$

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: ≥ 90%, Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥

10%, Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 10%

INDEX 607-002-00-6

REACH Reg. 01-2119475328-30 2-BROMO-2-NITROPROPAN-1,3-

DIOL

CAS 52-51-7 $0 \le x < 0.05$ 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 $0 \le x < 0.05$ 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.

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.



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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.

6.4. Reference to other sections



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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	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, 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 EU	United Kingdom OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020) Direttiva (UE) 2022/431; Direttiva (UE) 2019/1831; Direttiva (UE) 2019/130; Direttiva (UE) 2019/983; Direttiva (UE) 2017/2398; Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 98/24/CE; Direttiva 91/322/CEE.
	TLV-ACGIH	ACGIH 2021



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Predicted no-effect concentrati	ion - PNEC							
Normal value in fresh water				0,268	mg	ŋ/l		
Normal value in marine water				0,027	mg	ŋ/l		
Normal value for fresh water se	ediment			8,1	mg/kg			
Normal value for marine water	sediment			6,8	mg/kg			
Normal value for water, intermi	ittent release			0,017	mg/l			
Normal value of STP microorga	anisms			3,43	mg/l			
Normal value for the terrestrial	compartment			35	mg	ı/kg		
Health - Derived no-effec	t level - DNEL / I Effects on consumers	OMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 0,425 mg/kg		systemic		systemic
Inhalation			1,5	bw/d 1,5 mg/m3			6	6 mg/m3
Skin			1,0	42,5 mg/kg				85 mg/kg
OMIT				bw/d				bw/d
ALCOHOLS 040 44 ET	IOVVI ATED C''	LEATER CODE	M CALTO					
ALCOHOLS, C12-14, ETH Predicted no-effect concentration	ion - PNEC	LFATES, SUDIUI	VI SALIS					
Normal value in fresh water				0,24	mg	ı/l		
Normal value in marine water				0,024	mg	ı/l		
Normal value for fresh water se	ediment			0,917		ı/kg		
Normal value for marine water	sediment			0,092		ı/kg		
Normal value for water, intermi	ittent release			0,071	mg	ı/I		
Normal value of STP microorga	anisms			10	g/l			
Normal value for the terrestrial	compartment			7,5	mg	ı/kg		
Health - Derived no-effec	t level - DNEL / [OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 15 mg/kg		systemic		systemic
Inhalation				bw/d 52 mg/m3				175 mg/m3
Skin				1650 mg/kg				2750 mg/kg
CKIII				bw/d				bw/d
ACETIC ACID 0,048%								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	25		37				
TLV	CZE	25		35				
AGW	DEU	25	10	50	20			
MAK	DEU	25	10	50	20			
TLV	DNK	25	10					



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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 concentrat	tion - PNEC	-	-	-	-			
Normal value in fresh water				3,058	mg	ı/I		
Normal value in marine water				0,306	mg			
Normal value for fresh water s	adimont							
				11,36		/kg		
Normal value for marine water				1,136		/kg		
Normal value for water, interm				30,58	mg			
Normal value of STP microorg				85	mg			
Normal value for the terrestria	<u>'</u>			0,47	mg	/kg		
Health - Derived no-effect	Effects on	MEL			Effects on			
	consumers							
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
		Acute systemic	Chronic local 25 mg/m3	Chronic systemic		Acute systemic	Chronic local 25 mg/m3	Chronic systemic
Inhalation 2-BROMO-2-NITROPROF	Acute local 25 mg/m3 PAN-1,3-DIOL	Acute systemic			Acute local			
Inhalation	Acute local 25 mg/m3 PAN-1,3-DIOL	Acute systemic			Acute local	systemic		
Inhalation 2-BROMO-2-NITROPROF Predicted no-effect concentral	Acute local 25 mg/m3 PAN-1,3-DIOL	Acute systemic		systemic	Acute local 25 mg/m3	systemic		
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC	Acute systemic		systemic 0,01	Acute local 25 mg/m3 mg	systemic		
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC	Acute systemic		0,01 0,001	Acute local 25 mg/m3 mg mg	systemic		
2-BROMO-2-NITROPROF Predicted no-effect concentral Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment	Acute systemic		0,01 0,001 0,001	Acute local 25 mg/m3 mg mg	systemic //I //I //kg		
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release	Acute systemic		0,01 0,001 0,001 0,041 0,003	Acute local 25 mg/m3 mg mg mg	systemic y/I y/I y/kg y/kg		
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms	Acute systemic		0,01 0,001 0,001 0,041 0,003	Acute local 25 mg/m3 mg mg mg mg mg	systemic y/I y/I y/kg y/kg		
2-BROMO-2-NITROPROP Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms I compartment			0,01 0,001 0,001 0,003 0,003 0,43	Acute local 25 mg/m3 mg mg mg mg mg	systemic //I //I //kg //kg //l		
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms I compartment Effects on consumers	MEL	25 mg/m3	0,01 0,001 0,001 0,003 0,003 0,43 0,5	Acute local 25 mg/m3 mg mg mg mg mg mg mg mg mg	systemic //I //I //kg //kg //kg //kg //l //kg	25 mg/m3	systemic
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms Il compartment Et level - DNEL / DI Effects on	MEL Acute systemic		0,01 0,001 0,001 0,003 0,003 0,43 0,5	Acute local 25 mg/m3 mg mg mg mg mg effects on	systemic //I //I //kg //kg //l		
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the terrestria	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms I compartment Effects on consumers	MEL	25 mg/m3	0,01 0,001 0,001 0,003 0,003 0,43 0,5	Acute local 25 mg/m3 mg mg mg mg mg mg mg mg mg	systemic y/I y/I y/kg y/kg y/kg y/kg Acute	25 mg/m3	systemic
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms Il compartment Et level - DNEL / DI Effects on consumers Acute local	MEL Acute systemic 1,1 mg/kg bw/d 3,7 mg/m3	25 mg/m3 Chronic local 1,3 mg/m3	0,01 0,001 0,001 0,003 0,003 0,43 0,5 Chronic systemic 0,35 mg/kg bw/d 1,2 mg/m3	Acute local 25 mg/m3 mg mg mg mg mg mg conditions mg mg mg acute local	systemic //I //I //kg //kg //kg //kg //kg //kg //l //kg //l //kg //l //kg //kg //l //kg //kg //l //kg	25 mg/m3 Chronic local 4,2 mg/m3	Systemic Chronic Systemic 4,1 mg/m3
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms Il compartment Effects on consumers Acute local	MEL Acute systemic 1,1 mg/kg bw/d	25 mg/m3 Chronic local	0,01 0,001 0,001 0,003 0,003 0,43 0,5	acute local 25 mg/m3 mg mg mg mg mg mg cute local Effects on workers Acute local	systemic //I //I //kg	25 mg/m3 Chronic local	Systemic
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation Skin	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms Il compartment Et level - DNEL / DI Effects on consumers Acute local	MEL Acute systemic 1,1 mg/kg bw/d 3,7 mg/m3	25 mg/m3 Chronic local 1,3 mg/m3	0,01 0,001 0,001 0,003 0,003 0,43 0,5 Chronic systemic 0,35 mg/kg bw/d 1,2 mg/m3 1,4 mg/kg	and the local state of the local	systemic //I //I //kg //kg //kg //kg //kg //kg //l //kg //l //kg //l //kg //kg //l //kg //kg //l //kg	25 mg/m3 Chronic local 4,2 mg/m3 0,013	Chronic systemic 4,1 mg/m3 2,3 mg/kg
2-BROMO-2-NITROPROF Predicted no-effect concentrat Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure Oral Inhalation	Acute local 25 mg/m3 PAN-1,3-DIOL tion - PNEC sediment r sediment nittent release ganisms Il compartment Et level - DNEL / DI Effects on consumers Acute local	MEL Acute systemic 1,1 mg/kg bw/d 3,7 mg/m3	25 mg/m3 Chronic local 1,3 mg/m3	0,01 0,001 0,001 0,003 0,003 0,43 0,5 Chronic systemic 0,35 mg/kg bw/d 1,2 mg/m3 1,4 mg/kg	and the local state of the local	systemic //I //I //kg //kg //kg //kg //kg //kg //l //kg //l //kg //l //kg //kg //l //kg //kg //l //kg	25 mg/m3 Chronic local 4,2 mg/m3 0,013 mg/cm2	Chronic systemic 4,1 mg/m3 2,3 mg/kg



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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-effect level - DNEL / DMEL										
	Effects on				Effects on					
	consumers				workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic		
				systemic		systemic		systemic		
Inhalation						1468 ma/m3		734 ma/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 = medium hazard; HIGH = high hazard.

8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

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

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold



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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 Appearance liquid 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 рΗ 5.5 ± 0.5 Kinematic viscosity not available Dynamic viscosity 450 ± 100 mPa Solubility soluble in water Partition coefficient: n-octanol/water not available not available Vapour pressure Density and/or relative density not available Relative vapour density not available Particle characteristics not applicable

Information

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

Art. (14 (2))

Oxidising properties the product is not an oxidizing

substance



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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.

10.6. Hazardous decomposition products

2-BROMO-2-NITROPROPAN-1,3-DIOL

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



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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)

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

 LC50 (Inhalation vapours):
 11,4 mg/l/4h Rat

2-BROMO-2-NITROPROPAN-1,3-DIOL

LD50 (Dermal): 64 mg/kg ra

STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

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 ÓR 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



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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

 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



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ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Fish

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

> 1 mg/l/96h Danio rerio

7,2 mg/l/48h Daphnia magna

27 mg/l/72h Desmodesmus subspicatus 0,14 mg/l 28d Oncorhynchus mykiss

0,18 mg/l 21d Daphnia magna

0,93 mg/l Desmodesmus subspicatus

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

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 BCF 0,68 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

DERIVS., SODIUM SALTS

BCF 159

12.4. Mobility in soil



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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 ≥ 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

14.4. Packing group

not applicable



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14.5.	En	viro	nmer	ntai	naza	ıras

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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



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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
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level



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- 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
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP) 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

Provide appointed staff with adequate training on how to use chemical products. CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

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