

Conforms to Reg. (EU) 878/2020

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SECTION 1. Identification of the subs	stance/mixture and of	the company/underta	king
4.4. Des dust identifier			
1.1. Product identifier Code:	F 120		
Product name	Apple and Vinegar Scented	DISHWASHING DETERGENT	
UFI :	DAA0-P08V-X00V-1QDM		
1.2. Relevant identified uses of the substance or n	•		
Identified Uses Dish detergent	Industrial	Professional	Consumer
-		<i>v</i>	✓
Uses Advised Against			
Do not use for uses other than those indicated			
1.3. Details of the supplier of the safety data sheet			
Name Full address	NEW FADOR S.r.I. 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			
For urgent inquiries refer to	NEW FADOR S.r.I.		
	+39 030961 243		
	(08.30 - 17.30)		
	(00.00 - 17.00)		
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to the	ne provisions set forth in (EC)	Regulation 1272/2008 (CLP) (a	and subsequent amendments and
supplements). The product thus requires a safety datas			
Any additional information concerning the risks for healt			
Classified according to the ICE-PH-15/0338 report			
Hazard classification and indication: Eye irritation, category 2	H319	Causes serious eye irritation.	
Eye initation, category z	H319	Causes senous eye initation.	
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 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% Amphoteric surfactants 5% or over but less than 15%

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 \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

x = Conc. %

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification

Classification (EC) 1272/2008 (CLP)

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



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INDEX - EC 270-115-0	4,5≤x< 5	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 LD50 Oral: 1080 mg/kg
CAS 68411-30-3		ED50 Ofai. 1060 mg/kg
REACH Reg. 01-2119489428-22		
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS INDEX -	2,5≤x< 3	Eye Dam. 1 H318, Skin Irrit. 2 H315,
EC 500-234-8		Aquatic Chronic 3 H412 Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 5%
CAS 68891-38-3		Lyc III. 2 1010. = 070
REACH Reg. 01-2119488639-16		
ACETIC ACID 0,05%		
INDEX 607-002-00-6	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%
CAS 64-19-7		Lye IIII. 211018. 21070
REACH Reg. 01-2119475328-30		
bronopol (INN)		
INDEX 603-085-00-8	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 H111
EC 200-143-0		Aquatic Chronic 2 H411 STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg
CAS 52-51-7		
REACH Reg. 01-2119980938-15		
ETHYL ACETATE		
INDEX 607-022-00-5	0 ≤ x < 0,05	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 205-500-4		
CAS 141-78-6		
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



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EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

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

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT 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.

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.



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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 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
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
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)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
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
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)



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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
		erozičina predbilny o sobrževa za utagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list
		RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;
		Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS Predicted no-effect concentration - PNEC

		mg/m3	ppm	mg/m3	ppm			
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
ACETIC ACID 0,05% Threshold Limit Value								
				bw/d				bw/d
Skin				1650 mg/kg				2750 mg/kg
nhalation				bw/d 52 mg/m3				175 mg/m3
Dral				systemic 15 mg/kg		systemic		systemic
Route of exposure	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic
Health - Derived no-effe		DMEL						
Normal value for the terrestri	al compartment			7,5	mg	ı/kg		
Normal value of STP microor	ganisms			10	g/l			
Normal value for water, intern	mittent release			0,071	mg	ı/I		
Normal value for marine wate	er sediment			0,092	-	ı/kg		
Normal value for fresh water	sediment			0,917	mg	ı/kg		
Normal value in marine wate	r			0,024	mg	ı/I		
Normal value in fresh water				0,24	mg	ı/l		
ALCOHOLS, C12-14, ET Predicted no-effect concentra		LFATES, SODIUI	M SALTS					
Skin				42,5 mg/kg bw/d				85 mg/kg bw/d
nhalation			1,5	1,5 mg/m3			6	6 mg/m3
Dral				0,425 mg/kg bw/d				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
	Effects on consumers				Effects on workers			
Health - Derived no-effe	•	OMEL				,g		
Normal value for the terrestria	•			3,43		ı/kg		
Normal value for water, intern Normal value of STP microor				3,43	mg mg			
Normal value for marine water				6,8 0,017	-	ı/kg		
Normal value for fresh water				8,1	mg			
Normal value in marine wate				0,027	mg			



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TLV	BGR	25		37				
TLV	CZE	25		35				
AGW	DEU	25	10	50	20			
MAK	DEU	25	10	50	20			
TLV	DNK	25	10					
VLA	ESP	25	10	37	15			
VLEP	FRA			25	10			
HTP	FIN	13	5	25	10			
TLV	GRC	25	10	37	15			
AK	HUN	25		25				
GVI/KGVI	HRV	25	10					
TLV	NOR	25	10					
VLE	PRT	25	10					
NDS/NDSCh	POL	15		30				
NGV/KGV	SWE	13	5	25	10			
NPEL	SVK	25	10					
MV	SVN	25	10					
OEL	EU	25	10	50	20			
TLV-ACGIH		25	10	37	15			
Predicted no-effect concen	tration - PNEC							
Normal value in fresh wate	r			3,058	mç	g/l		
Normal value in marine wa	ter			0,306	mį	g/l		
Normal value for fresh wate	er sediment			11,36	mç	g/kg		
Normal value for marine wa	ater sediment			1,136	mç	g/kg		
Normal value for water, inte	ermittent release			30,58	mç	g/I		
Normal value of STP micro	organisms			85	mç	g/I		
Normal value for the terres	trial compartment			0,47	mç	g/kg		
Health - Derived no-ef		DMEL			F // /			
	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	25 mg/m3		25 mg/m3		25 mg/m3		25 mg/m3	
bronopol (INN)								
Predicted no-effect concen				0.01	m	7/1		
Predicted no-effect concen Normal value in fresh wate	r			0,01	mı	-		
Predicted no-effect concen Normal value in fresh wate Normal value in marine wa	r ter			0,001	mç	g/l		
Predicted no-effect concen Normal value in fresh wate Normal value in marine wat Normal value for fresh wate	r ter er sediment			0,001 0,041	mg	g/l g/kg/d		
Predicted no-effect concent Normal value in fresh wate Normal value in marine wate Normal value for fresh wate Normal value for marine wate	r ter er sediment ater sediment			0,001 0,041 0,003	mı mı mı	g/l g/kg/d g/kg/d		
Predicted no-effect concen Normal value in fresh wate Normal value in marine wa Normal value for fresh wate Normal value for marine wa Normal value for water, inte	r ter er sediment ater sediment ermittent release			0,001 0,041 0,003 0,003		g/l g/kg/d g/kg/d g/l		
Predicted no-effect concen Normal value in fresh wate Normal value in marine wat Normal value for fresh wate Normal value for marine wat Normal value for water, inte Normal value of STP micro	r ter er sediment ater sediment ermittent release organisms			0,001 0,041 0,003 0,003 0,43		g/l g/kg/d g/kg/d g/l		
Predicted no-effect concen Normal value in fresh wate Normal value in marine wa Normal value for fresh wate Normal value for marine wa Normal value for water, inte	r ter er sediment ater sediment ermittent release organisms trial compartment	DMEL		0,001 0,041 0,003 0,003		g/l g/kg/d g/kg/d g/l		



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Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,1 mg/kg bw/d		0,35 mg/kg bw/d				-
Inhalation	1,3 mg/m3	3,7 mg/m3	1,3 mg/m3	1,2 mg/m3	4,2 mg/m3	12,3 mg/m3	4,2 mg/m3	4,1 mg/m3
Skin	0,008 mg/cm2	4,2 mg/kg bw/d	0,008 mg/cm2	1,4 mg/kg bw/d	0,013 mg/cm2	7 mg/kg bw/d	0,013 mg/cm2	2,3 mg/kg bw/d
ETHYL ACETATE Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
		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					
HTP	FIN	1100	300	1800	500			
TLV	GRC	1400	400					
AK	HUN	1400		1400				
GVI/KGVI	HRV		200		400			
TLV	NOR	550	150					
TGG	NLD	550		1100				
NDS/NDSCh	POL	200		600				
NGV/KGV	SWE	500	150	1100	300			
NPEL	SVK	1500	400	3000				
WEL	GBR		200		400			
OEL	EU	734	200	1468	400			
TLV-ACGIH		1441	400					
Health - Derived no-eff	ect level - DNEL / DI Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Inhalation				systemic		systemic 1468 mg/m3		systemic 734 mg/m3

(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.



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HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance	Value liquid	Information
Colour	orange	
Odour	characteristic	
Melting point / freezing point	0°C	Method: literature data Substance: WATER
Initial boiling point	100 °C	Method: internal Substance: WATER
Flammability	not available	Reason for missing data: The substance/mixture is not flammable
Lower explosive limit	not available	Reason for missing data: The substance/mixture is not explosive
Upper explosive limit	not available	Reason for missing data: The substance/mixture is not explosive
Flash point	not available	Reason for missing data: The substance/mixture is not flammable
Auto-ignition temperature	not available	Reason for missing data: The substance/mixture does not self -have
Decomposition temperature	not available	Reason for missing data: It only applies to authoritative substances and mixtures, organic peroxides and other substances and mixtures that they can decompose
рН	6-5	Method: pHmeter Temperature: 20 °C
Kinematic viscosity	500 ± 100	Method: viscosimeter Temperature: 20 °C
Solubility	soluble in water	Method: internal



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Partition coefficient: n-octanol/water	not available	Reason for missing data: does not apply to inorganic and ionic liquids and, as a rule, it does not apply to blends
Vapour pressure Density and/or relative density	not available 1,012	Reason for missing data: not determined Method: scaled scale and cylinder Temperature: 20 °C
Relative vapour density	not available	Reason for missing data: not determined
Particle characteristics Median equivalent diameter Remark:	It only applies to solids	
Size distribution Remark:	It only applies to solids	
Dustiness Remark:	It only applies to solids	
Specific surface area Remark:	It only applies to solids	
Shape Remark:	It only applies to solids	
9.2. Other information		
9.2.1. Information with regard to physical haz	ard classes	
Information not available		
9.2.2. Other safety characteristics		
Explosive properties	not available	Reason for missing data: Absent chemical groups associated with explosive properties in accordance with the provisions of Annex I, Part 2, chap. 2.1.4.3 of Reg. (EC) 1272/2008 - CLP
Oxidising properties	not available	Reason for missing data: Absent requirements related to the presence of atoms or chemical bonds associated with oxidizing properties in the molecules of the components according to Annex I, Part 2, 2.13.4 Reg. (CE) 1272/2008

SECTION 10. Stability and reactivity

10.1. Reactivity

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

bronopol (INN) 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



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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 0,05%

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 0,05% Avoid exposure to: sources of heat,naked flames.

bronopol (INN) Avoid exposure to: light,UV rays,moisture.

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

10.5. Incompatible materials

ACETIC ACID 0,05% 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

bronopol (INN) May develop: nitric oxide,carbon oxides,hydrobromic acid.

SECTION 11. Toxicological information

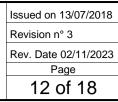
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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



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ATE (Inhalation) of the mixture: ATE (Oral) of the mixture:	Not classified (no significant component) >2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIL LD50 (Dermal):	IM SALTS > 2000 mg/kg rat
LD50 (Oral):	1080 mg/kg rat
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM	
LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg rat > 2000 mg/kg rat
ACETIC ACID 0,05%	
LD50 (Dermal): LD50 (Oral):	1060 mg/kg Rabbit 3310 mg/kg Rat
LC50 (Inhalation vapours):	11,4 mg/l/4h Rat
bronopol (INN)	
LD50 (Dermal): STA (Dermal):	> 2000 mg/kg bw rat 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
	(figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral): LC50 (Inhalation mists/powders):	254 mg/kg Male Rat > 0.588 mg/l air/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	
GERM CELL MUTAGENICITY	
Does not meet the classification criteria for this hazard class CARCINOGENICITY	
Does not meet the classification criteria for this hazard class REPRODUCTIVE TOXICITY	
Does not meet the classification criteria for this hazard class	
STOT - SINGLE EXPOSURE	
Does not meet the classification criteria for this hazard class <u>STOT - REPEATED EXPOSURE</u>	
Does not meet the classification criteria for this hazard class	
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

bronopol (INN)
LC50 - for Fish
EC50 - for Crustacea
EC50 - for Algae / Aquatic Plants
Chronic NOEC for Fish

35,7 mg/l/96 d Lepomis macrochirus 0,27 mg/l/21 d Daphnia magna 0,25 mg/l/72h Skeletonema costatum > 20 mg/l/96 h Lepomis macrochirus



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Chronic NOEC for Crustacea	0,27 mg/l/21 d Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,08 mg/l/72 h Skeletonema costatum
ACETIC ACID 0,05%	
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
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 12.2. Persistence and degradability	 > 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
ETHYL ACETATE	> 10000 mg/l
Solubility in water Rapidly degradable	> 10000 mg/l
bronopol (INN)	
Solubility in water	286000 mg/l
Rapidly degradable ACETIC ACID 0,05%	
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



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bronopol (INN) Partition coefficient: n-octanol/water BCF	0,22 3,16
ACETIC ACID 0,05% Partition coefficient: n-octanol/water	0.47
Partition coefficient. n-octanol/water	-0,17
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS BCF	159
12.4. Mobility in soil	
bronopol (INN)	
Partition coefficient: soil/water	1,56 Soil 4: clay loam
ACETIC ACID 0,05%	
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.



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SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

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

Product Point	3 - 40
Contained substance Point	75

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)

On the basis of available data, the product does not contain any SVHC in percentage ≥ 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: 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.

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
Flam. Liq. 3	Flammable liquid, category 3
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
Skin Irrit. 2	Skin 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
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.



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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin 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.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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)
- 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 (EU) 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)



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- 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)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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: 02 / 03 / 08 / 09 / 11 / 12 / 15.