

Revision date

Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2

Board Date 05/2010

Board Rev. 1

102/09

Revision date 11.11.2021

8 RLAB Rev. nº DG

Revision date **RLAB** 

Rev. n° 1 di 14

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

#### 1.1. Product identifier

F 120 Code:

PIATTI Superconcentrato Mela e Aceto AMACASA 1,25 I Product name UFI:

Rev. n°

DAA0-P08V-X00V-1QDM

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

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

Do not use for uses other than those indicated

1.3. Details of the supplier of the safety data sheet

Name **NEW FADOR S.r.I.** Full address 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

info@newfador.it responsible for the Safety Data Sheet

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.

Hazard classification and indication:

Eye irritation, category 2 H319 Causes serious eye irritation.

Classified according to ICE-PH-15/0338 report

### 2.2. Label elements

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

Hazard pictograms:



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.



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2

Board Date 05/2010

Board Rev. 1

Document n°Revision dateRev. n°Revision dateRev. n°Revision dateRev. n°102/0911.11.20218RLABDGRLAB2 di 14

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 anionic surfactants

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 ≥ 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 1272/2008 (CLP)

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

SALTS

CAS 68411-30-3  $4,5 \le x < 5$  Acute Tox. 4 H302,

Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 LD50 Oral: 1080 mg/kg

EC 270-115-0 INDEX -

REACH Reg. 01-2119489428-22

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

CAS 68891-38-3  $2,5 \le x < 3$  Eye Dam. 1 H318,

Skin Irrit. 2 H315, Aquatic Chronic 3 H412 Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 5%

EC 500-234-8

INDFX -

REACH Reg. 01-2119488639-16

ACETIC ACID...%

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. 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 ≤ x < 0,05

Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318,



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2
Board Date 05/2010

Board Rev. 1

102/09

Revision date Rev. n° 11.11.2021 8

Revision date RLAB

Rev. n°

Revision date RLAB Rev. n° 3 di 14

Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411 STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg

EC 200-143-0

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.

# 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.



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2 Board Date 05/2010

Board Rev. 1

Document n°	Revision date	Rev. n°	Revision date	Rev. n°	Revision date	Rev. n°
102/09	11.11.2021	8	RLAB	DG	RLAB	4 di 14

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

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	NARIADENÍE 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	



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2 Board Date 05/2010

Board Rev. 1

Revision date Rev. n° Revision date Rev. n° Rev. n° Revision date 102/09 11.11.2021 8 **RLAB** DG **RLAB** 5 di 14

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
EH4

OEL EU

EH40/2005 Workplace exposure Directive (EU) 2019/1831; Direct Directive (EU) 2017/164; Directive 2000/39/EC; Directive 98/24/EC; ACGIH 2020

TLV-ACGIH

Predicted no-effect concentration	tion - PNEC							
Normal value in fresh water				0,268	mg	<b>3/</b> Ι		
Normal value in marine water	•			0,027	mg/l			
Normal value for fresh water sediment		8,1	mg	g/kg				
Normal value for marine water sediment		6,8	mg	g/kg				
Normal value for water, interm	nittent release			0,017	mg	g/l		
Normal value of STP microorg	ganisms			3,43	mg	g/l		
Normal value for the terrestria	al compartment			35	mg	g/kg		
Health - Derived no-effec	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,425 mg/kg bw/d				
Inhalation			1,5	1,5 mg/m3			6	6 mg/m3
								05 //
Skin  ALCOHOLS, C12-14, ETI	HOXYLATED, SU	LFATES, SODIUM	M SALTS	42,5 mg/kg bw/d				85 mg/kg bw/d
ALCOHOLS, C12-14, ET		LFATES, SODIUI	M SALTS	bw/d				85 mg/kg bw/d
ALCOHOLS, C12-14, ETI Predicted no-effect concentra Normal value in fresh water	tion - PNEC	LFATES, SODIUM	M SALTS	0,24	mg	ŋ/l		
ALCOHOLS, C12-14, ETI Predicted no-effect concentra Normal value in fresh water	tion - PNEC	LFATES, SODIUI	M SALTS	bw/d	mç mç			
ALCOHOLS, C12-14, ETI Predicted no-effect concentra Normal value in fresh water Normal value in marine water	tion - PNEC	LFATES, SODIUI	M SALTS	0,24 0,024 0,917	mg			
ALCOHOLS, C12-14, ETI Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s	sediment	LFATES, SODIUI	M SALTS	0,24 0,024	mg mg	g/l		
ALCOHOLS, C12-14, ET Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate	sediment	LFATES, SODIUI	M SALTS	0,24 0,024 0,917	mg mg	g/l g/kg g/kg		
ALCOHOLS, C12-14, ET Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value for water, interm	sediment er sediment nittent release	LFATES, SODIUI	M SALTS	0,24 0,024 0,917 0,092 0,071	mg mg	g/kg g/kg g/kg		
ALCOHOLS, C12-14, ET	sediment release ganisms	LFATES, SODIUI	M SALTS	0,24 0,024 0,917 0,092 0,071	mg mg mg mg	g/kg g/kg g/kg		
ALCOHOLS, C12-14, ETI Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value for water, interm	sediment er sediment nittent release ganisms al compartment		M SALTS	0,24 0,024 0,917 0,092 0,071	mg mg mg mg	g/l g/kg g/kg		
ALCOHOLS, C12-14, ETI Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value for water, interm Normal value of STP microors Normal value for the terrestria	sediment or sediment nittent release ganisms al compartment or level - DNEL / E Effects on		M SALTS  Chronic local	0,24 0,024 0,917 0,092 0,071	mg mg mg g/I mg	g/l g/kg g/kg	Chronic local	
ALCOHOLS, C12-14, ETI Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect Route of exposure	sediment or sediment nittent release ganisms al compartment ct level - DNEL / E Effects on consumers	DMEL		0,24 0,024 0,917 0,092 0,071 10 7,5	mg mg g/I mg Effects on workers	y/l y/kg y/kg y/l Acute	Chronic local	bw/d Chronic
ALCOHOLS, C12-14, ETI Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value for water, interm Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect	sediment or sediment nittent release ganisms al compartment ct level - DNEL / E Effects on consumers	DMEL		0,24 0,024 0,917 0,092 0,071 10 7,5	mg mg g/I mg Effects on workers	y/l y/kg y/kg y/l Acute	Chronic local	bw/d Chronic

ACETIC ACID%						
Threshold Limit Value						
Туре	Country TWA/8h		STEL/15min		Remarks / Observations	
		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			
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			



OEL

TLV-ACGIH

EU

734

1441

200

400

1468

400

# Material Safety Data Sheet Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2 Board Date 05/2010

Board Rev. 1

Revision date Revision date Rev. n° Rev. n° Revision date Rev. n° 11.11.2021 6 di 14 102/09 8 **RLAB** DG **RLAB** 

NIDO AIDOO:								
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 concentration	n - PNEC							
Normal value in fresh water				3,058	mg	ı/l		
Normal value in marine water				0,306	mg	ı/l		
Normal value for fresh water se	diment			11,36	mg	ı/kg		
Normal value for marine water s	sediment			1,136	mg	ı/kg		
Normal value for water, intermit	tent release			30,58	mg	ı/l		
Normal value of STP microorga	nisms			85	mg	ı/l		
Normal value for the terrestrial of				0,47	mo	ı/kg		
Health - Derived no-effect	•	ИEL		-,		, 3		
	Effects on				Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
<u> </u>		,		systemic		systemic		systemic
Inhalation	25 mg/m3		25 mg/m3		25 mg/m3		25 mg/m3	
2-BROMO-2-NITROPROPA Predicted no-effect concentration								
	III - FINEU			0.01		•//		
Normal value in fresh water				0,01	mg			
Normal value in marine water				0,001	mg			
Normal value for fresh water se				0,041		ı/kg		
Normal value for marine water s				0,003		ı/kg		
Normal value for water, intermit				0,003	mg			
Normal value of STP microorga	nisms			0,43	mg	ı/l		
Normal value for the terrestrial of	compartment			0,5	mg	ı/kg		
Health - Derived no-effect	Effects on	MEL			Effects on			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral		1,1 mg/kg bw/d		systemic 0,35 mg/kg bw/d		systemic		systemic
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/m
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								
Type	Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
		mg/m3	ppm	mg/m3	ppm	2.300.14110		
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	4.400				
AK	HUN	1400		1400	105			
GVI/KGVI	HRV		200		400			
TGG	NLD	550		1100				
NDS/NDSCh	POL	200		600				
NPEL	SVK	1500	400	3000				
WEL	GBR		200		400			



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2
Board Date 05/2010

Board Rev. 1

Document n° Revision date Rev. n° Rev. n° Revision date Rev. n° Rev.

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 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.

#### 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**

Dranartica

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

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

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

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

### **ENVIRONMENTAL EXPOSURE CONTROLS**

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

### **SECTION 9. Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	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	
Kinematic viscosity	Not available	
Dynamic viscosity Solubility	$500 \pm 100$ soluble in water	Temperature: 25 °C
Partition coefficient: n-octanol/water	Not available	



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2

Board Date 05/2010

Board Rev. 1

Document n°	Revision date	Rev. n°	Revision date	Rev. n°	Revision date	Rev. n°
102/09	11.11.2021	8	RLAB	DG	RLAB	8 di 14

Vapour pressure Not available
Density and/or relative density 1,012
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

Information not available

Explosive properties not classified as explosive,

contains no explosive

substances according to CLP

Art. (14 (2))

Oxidising properties the product is not an oxidizing

substance

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

#### 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...%

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...%

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...%

Incompatible with: carbonates, hydroxides, phosphates, oxidising substances, bases.



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2 Board Date 05/2010

Board Rev. 1

Document n°	Revision date	Rev. n°	Revision date	Rev. n°	Revision date	Rev. n°
102/09	11.11.2021	8	RLAB	DG	RLAB	9 di 14

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.

# **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** 

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

Not classified (no significant component) ATE (Dermal) of the mixture:

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

LD50 (Oral): 1080 mg/kg rat LD50 (Dermal): > 2000 mg/kg rat

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

LD50 (Oral): > 2000 mg/kg rat LD50 (Dermal): > 2000 mg/kg rat

ACETIC ACID...%

LD50 (Oral): 3310 mg/kg Rat LD50 (Dermal): 1060 mg/kg Rabbit 11,4 mg/l/4h Rat LC50 (Inhalation vapours):

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

LD50 (Oral):

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

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

LD50 (Dermal):

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)

0,588 mg/l/4h rat LC50 (Inhalation mists/powders):

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

**STOT - REPEATED EXPOSURE** 

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



102/

# **Material Safety Data Sheet**

Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2 Board Date 05/2010

Board Rev. 1

ent n°	Revision date	Rev. n°	Revision date	Rev. n°	Revision date	Rev. n°
/09	11.11.2021	8	RLAB	DG	RLAB	10 di 14

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

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...%

 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 > 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

#### 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...%

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



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2
Board Date 05/2010

Board Rev. 1

Document n°	Revision date	Rev. n°	Revision date	Rev. n°	Revision date	Rev. n°
102/09	11.11.2021	8	RLAB	DG	RLAB	11 di 14

**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...%** 

Partition coefficient: n-octanol/water -0,17

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

BCF 159

12.4. Mobility in soil

ACETIC ACID...%

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



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2 Board Date 05/2010

Board Rev. 1

Document n°	Revision date	Rev. n°	Revision date	Rev. n°	Revision date	Rev. n°
102/09	11.11.2021	8	RLAB	DG	RLAB	12 di 14

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/EC: 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 (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

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 (EC) Reg. 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:



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2 Board Date 05/2010

70010 Dato 00/2010

Board Rev. 1

Document n°	Revision date	Rev. n°	Revision date	Rev. n°	Revision date	Rev. n°
102/09	11.11.2021	8	RLAB	DG	RLAB	13 di 14

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

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

Skin irritation, category 2

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.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin 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:

Skin Irrit. 2

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 (EU) 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



Conforms to Reg. (EU) 878/2020

Board Code S-P4/2-2 Board Date 05/2010

Board Rev. 1

Document n°	Revision date	Rev. n°	Revision date	Rev. n°	Revision date	Rev. n°
102/09	11.11.2021	8	RLAB	DG	RLAB	14 di 14

- 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)
- 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.