	MATERIAL SAFETY DATA SHEET 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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	1 di 14

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

1.1. Product identifier

Code: F_228
 Product name: LANA e DELICATI a Mano e in Lavatrice AMACASA
 UFI: 5ED3-G01R-A006-YY23

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

Identified Uses	Industrial	Professional	Consumer
laundry 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.l.
 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

For urgent inquiries refer to: NEW FADOR S.r.l.
 +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 based on the results of the ICE-PH-15/0339 study

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.
 EUH208 Contains: 2-OCTYL-2H-ISOTHIAZOL-3-ONE, 1,2-BENZISOTHIAZOL-3(2H)- ONE



MATERIAL SAFETY DATA SHEET

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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	2 di 14

May produce an allergic reaction.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves / 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%	soap
5% or over but less than 15%	anionic surfactants

perfumes

Preservation agents: OCTYLISOTHIAZOLINONE, BENZISOTHIAZOLINONE

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS CAS 68411-30-3	$5 \leq x < 6$	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	$3 \leq x < 3,5$	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 Eye Dam. 1 H318: $\geq 10\%$, Eye Irrit. 2 H319: $\geq 5\%$
EC 500-234-8 INDEX - REACH Reg. 01-2119488639-16		
Fatty acids, coco, potassium salts CAS 61789-30-8	$1 \leq x < 1,5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 263-049-9 INDEX -		



MATERIAL SAFETY DATA SHEET

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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	3 di 14

1,2-BENZISOTHIAZOL-3(2H)- ONE

CAS 2634-33-5

$0 \leq x < 0,05$

Acute Tox. 1 H330,
Acute Tox. 4 H302,
Eye Dam. 1 H318,
Skin Irrit. 2 H315,
Skin Sens. 1 H317,
Aquatic Acute 1 H400 M=1,
Aquatic Chronic 2 H411
Skin Sens. 1 H317: $\geq 0,05\%$

EC 220-120-9

INDEX 613-088-00-6

REACH Reg. 01-2120761540-60

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

CAS 26530-20-1

$0 \leq x < 0,0015$

Acute Tox. 2 H330,
Acute Tox. 3 H301,
Acute Tox. 3 H311,
Skin Corr. 1 H314,
Eye Dam. 1 H318,
Skin Sens. 1A H317,
Aquatic Acute 1 H400 M=100,
Aquatic Chronic 1 H410 M=100, EUH071
Skin Sens. 1A H317: $\geq 0,0015\%$

EC 247-761-7

INDEX 613-112-00-5

LD50 Oral: 125 mg/kg, LD50 Dermal: 311 mg/kg, LC50 Inhalation mists/powders: 0,27 mg/L

MORPHOLINE

CAS 110-91-8

$0 \leq x < 0,05$

Flam. Liq. 3 H226,
Acute Tox. 4 H302,
Acute Tox. 4 H312,
Acute Tox. 4 H332,
Skin Corr. 1B H314,
Eye Dam. 1 H318

EC 203-815-1

INDEX 613-028-00-9

REACH Reg. 01-2119496057-30

LD50 Oral: 1050 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

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

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

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

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

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

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


Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

	MATERIAL SAFETY DATA SHEET Conforms to Reg. (EU) 878/2020					Board Code S-P4/2-2
						Board Date 05/2010
	Document n°	Revision date	Rev. n°	Edited by	Approved by	Filed by
17/16	26.01.2022	2	RLAB	DG	RLAB	Page 4 di 14

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

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:



MATERIAL SAFETY DATA SHEET

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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	6 di 14

	systemic	systemic	systemic
Oral	15 mg/kg bw/d		
Inhalation	52 mg/m3		175 mg/m3
Skin	1650 mg/kg bw/d		2750 mg/kg bw/d

MORPHOLINE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	20				SKIN
TLV	CZE	35		70		SKIN
AGW	DEU	36	10	72	20	SKIN
MAK	DEU	36	10	72	20	
TLV	DNK	36	10			SKIN
VLA	ESP	36	10	72	20	
VLEP	FRA	36	10	72	20	
TLV	GRC	36	10	72	20	
AK	HUN	70		70		SKIN
GVI/KGVI	HRV	36	10	72	20	SKIN
VLEP	ITA	36	10	72	20	SKIN
TGG	NLD	36	10	72	20	SKIN
VLE	PRT	36	10	72	20	
NDS/NDSch	POL	36		72		
NPEL	SVK	36	10	72		
WEL	GBR	36	10	72	20	SKIN
OEL	EU	36	10	72	20	
TLV-ACGIH		71	20			SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	0,01	mg/kg
Normal value for marine water sediment	1,49	mg/kg
Normal value for water, intermittent release	0,28	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,239	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		38 mg/kg bw/d		6,3 mg/kg bw/d				
Inhalation	18 mg/m3		3,2 mg/m3	45 mg/m3			36 mg/m3	91 mg/m3
Skin				0,52 mg/kg bw/d				1,04 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

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


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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

	MATERIAL SAFETY DATA SHEET					Board Code S-P4/2-2
	Conforms to Reg. (EU) 878/2020					Board Date 05/2010
						Board Rev. 1
Document n°	Revision date	Rev. n°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	7 di 14

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

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties


Properties	Value	Information
Appearance	liquid	
Colour	pink	
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	8,5 ± 0,5	
Kinematic viscosity	Not available	
Dynamic viscosity	300 ± 50 mPa*s	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1,02 ± 0,01	
Relative vapour density	Not available	
Particle characteristics	Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Information not available

9.2.2. Other safety characteristics

Explosive properties	not classified as explosive, contains no explosive substances according to CLP Art. (14 (2))
Oxidising properties	the product is not an oxidizing substance

	MATERIAL SAFETY DATA SHEET 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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	8 di 14

SECTION 10. Stability and reactivity

10.1. Reactivity

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

MORPHOLINE

On contact with: strong oxidising agents, reducing agents, strong acids, strong bases. May develop: heat.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

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

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

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

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 (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

1,2-BENZISOTHIAZOL-3(2H)- ONE

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation mists/powders):	0,005 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation vapours):	0,05 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)



MATERIAL SAFETY DATA SHEET

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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	9 di 14

STA (Inhalation gas): 10 ppm estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

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

LD50 (Oral): 125 mg/kg
LD50 (Dermal): 311 mg/kg
LC50 (Inhalation mists/powders): 0,27 mg/l

MORPHOLINE

LD50 (Oral): 1050 mg/kg Rat
LD50 (Dermal): 500 mg/kg Rabbit
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)
LC50 (Inhalation vapours): 35,1 mg/l/1h Rat
STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

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

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

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

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

MORPHOLINE

LC50 - for Fish 179 mg/l/96h
EC50 - for Crustacea 45 mg/l/48h
EC50 - for Algae / Aquatic Plants 51 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants 31 mg/l 72h

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,



MATERIAL SAFETY DATA SHEET

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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	10 di 14

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

MORPHOLINE

Solubility in water	1000 - 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

MORPHOLINE

Partition coefficient: n-octanol/water	-2,55
BCF	< 2,8

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

BCF

159

12.4. Mobility in soil

MORPHOLINE

Partition coefficient: soil/water	-0,6196
-----------------------------------	---------

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.

	MATERIAL SAFETY DATA SHEET 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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	11 di 14

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/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 \geq 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

	MATERIAL SAFETY DATA SHEET					Board Code S-P4/2-2
	Conforms to Reg. (EU) 878/2020					Board Date 05/2010
						Board Rev. 1
Document n°	Revision date	Rev. n°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	12 di 14

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.

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. 3	Flammable liquid, category 3
Acute Tox. 1	Acute toxicity, category 1
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 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
H226	Flammable liquid and vapour.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

	MATERIAL SAFETY DATA SHEET 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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	13 di 14

- 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

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 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
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 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
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- The Merck Index. - 10th Edition
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 - 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



MATERIAL SAFETY DATA SHEET

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°	Edited by	Approved by	Filed by	Page
17/16	26.01.2022	2	RLAB	DG	RLAB	14 di 14

Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 08 / 09 / 11 / 12 / 15 / 16.