According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

grupo**puma**

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

1.1. Product identifier

Code: Product name PAVILAND ARQ RESINA

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

Intended use

Single-component acrylic water-based primer for microcements

1.3. Details of the supplier of the safety data sheet

GRUPO PUMA ESPAÑA S.L. AVDA. AGRUPACIÓN CÓRDOBA, NUM. 17 14014 CÓRDOBA - CÓRDOBA - ESPAÑA Tfno.: +34 957 102 210 - Fax: +34 957 44 19 92 fds@grupopuma.com http://www.grupopuma.com

1.4. Emergency telephone number

+34 957 102 210 (08:30 - 13:30, 16:00 - 19:00)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication:

2.2. Label elements

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



According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 2. Hazards identification ... / >>

Hazard pictograms:		
Signal words:		
Hazard statements: EUH210 EUH208	Safety data sheet available on request. Contains: 1,2-BENZISOTHIAZOLIN May produce an allergic reaction.	NE 3 (2H) -ONE
Precautionary statements:		
VOC (Directive 2004/42/EC) : Primers. VOC given in g/litre of produc Limit value:	—	10,00 30,00

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 (EC) 1272/2008 (CLP)
2-BUTOXYET	HANOL		
INDEX		1≤x< 2	Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC	203-905-0		LD50 Oral: 1200 mg/kg/bw/d, LC50 Inhalation vapours: 3 mg/l/4h
CAS	111-76-2		
REACH Reg.	01-2119475108-36	5	
1,2-BENZISO	THIAZOLINE 3 (2H)	-ONE	
INDEX	613-088-00-6	0 ≤ x < 0,05	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317,
			Aguatic Acute 1 H400 M=1, Aguatic Chronic 2 H411
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
CAS	2634-33-5		LD50 Oral: 784 mg/kg
REACH Reg.	01-2120761540-60)	

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. Get medical advice/attention 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.

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 4. First aid measures .../>>

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.

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



According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH



SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Deutschland	Forochup	nagomoinachaft		- Morto Lioto 2	022 Ständiga Sa	aatakammiaa	ion zur	
	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58							
ESP	España		Límites de exposición profesional para agentes químicos en España 2023						
FRA	France	Valeurs lir	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021						
HUN	Magyarország	Az innová	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről						
ITA	Italia	,	egislativo 9 Apri		5 5	5			
NOR	Norge	arbeidsmi		erisikogrupper f	or biologiske fa	severdier for fysis aktorer (forskrift o		ske faktorer i	
NLD	Nederland	Arbeidson		egeling. Lijst va	n wettelijke gre	enswaarden op gi ihedenbesluit	rond van de	artikelen 4.3,	
POL	Polska	Rozporzą rozporząd	dzenie ministra zenie w sprawie	rozwoju, pracy e najwyższych o	i technologii z	, dnia 18 lutego 20 n stężeń i natężei			
ROU	România	Hotărârea	dla zdrowia w środowisku pracy Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pent modificarea și completarea hotărârii guvernului nr. 1.093/2006					n și pentru	
SWE	Sverige	Hygienisk		Arbetsmiljöverl		och allmänna rå	d om hygieni	ska	
GBR	United Kingdom	0	EH40/2005 Workplace exposure limits (Fourth Edition 2020)						
			C; Directive 200	,	()	7/164; Directive C; Directive 98/2		,	
		1,	2-BENZISOTH	AZOLINE 3 (2	H) -ONE				
Predicted no-effect	ct concentration -	PNEC							
Normal value in	fresh water					0,00403	mg/l		
Normal value in	marine water					0,00040	mg/l		
						3			
Normal value fo	r fresh water sedin	nent				0,0499	mg/kg		
	r marine water sed					0,499	mg/kg		
Normal value of	STP microorganis	ms				1,03	mg/l		
Normal value fo	r the terrestrial con	npartment				3	mg/kg/d		
Health - Derived n	o-effect level - DN	NEL / DMEL							
	Effects on	consumers			Effects on w	vorkers			
Route of exposu	ure Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic	
Inhalation				1,2				6,81	
				mg/m3				mg/m3	
Skin				0,345				0,966	
				mg/kg bw/c	I			mg/kg	
					•				

bw/d



According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 8. Exposure controls/personal protection .../>>

hreshold Limit V	alua			2-BUTO	XYETHANOL				
Type	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
турс	Country	mg/m3	ppm	mg/m3	ppm	Remarks /	00301120013		
MAK	DEU	49	10	98	20	SKIN	[2-Butoxve	thanol] in air	
VLA	ESP	98	20	245	50	SKIN	[····· , ···	
VLEP	FRA	49	10	246	50	SKIN	Bold type		
AK	HUN	98		246		SKIN	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
VLEP	ITA	98	20	246	50	SKIN			
TLV	NOR	50	10			SKIN			
TGG	NLD	100	20,4	246	50	SKIN			
NDS/NDSCh	POL	98		200		SKIN			
TLV	ROU	98	20	246	50				
NGV/KGV	SWE	50	10	246	50	SKIN			
WEL	GBR	123	25	246	50	SKIN			
OEL	EU	98	20	246	50		Bold-type (IOELV)	
redicted no-effect	ct concentra	ation - PNE	C						
Normal value in	fresh water						8,8	mg/l	
Normal value in marine water							0,88	mg/l	
Normal value fo	r fresh wate	r sediment					34,6	mg/kg	
Normal value for marine water sediment							3,46	mg/kg	
Normal value for water, intermittent release							9,1	mg/l	
Normal value of STP microorganisms							463	mg/l	
Normal value for the food chain (secondary poisoning)							0,02	g/kg	
Normal value for the terrestrial compartment							2,33	mg/kg	
lealth - Derived n	o-effect lev	el - DNEL	DMEL						
	Effe	cts on cons	sumers			Effects on w	orkers		
Route of exposu			cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	··· -,	stemic	local	systemic	local	systemic	local	systemic
Oral			∂,7 g/kg bw/d		6,3 mg/kg bw/d				
Inhalation	147			NPI	59	246	1091	NPI	98
	mg/		g/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin	MEI			NPI	NPI	MED	NPI	NPI	LOW

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

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

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 ISO 16321).

RESPIRATORY PROTECTION

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. 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).

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.

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH



Information

Reason for missing data:Date not available Reason for missing data:Date not available

Reason for missing data:Date not available Reason for missing data:Date not available Reason for missing data:Date not available Reason for missing data:Date not available Reason for missing data:Date not available Reason for missing data:Date not available

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value
Appearance		liquid
Colour		white
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	>	60 °C
Auto-ignition temperature		not available
Decomposition temperature		not available
рН		5 - 8
Kinematic viscosity		not available
Solubility		partially soluble in water
Partition coefficient: n-octanol/water		not available
Vapour pressure		not available
Density and/or relative density		1 kg/l
Relative vapour density		not available
relative rapeat denoity		not applicable

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) :

SECTION 10. Stability and reactivity

10.1. Reactivity

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

1,00 % - 10,00

g/litre

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

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: > 20 mg/l >2000 mg/kg Not classified (no significant component)

1,2-BENZISOTHIAZOLINE 3 (2H) -ONE LD50 (Dermal): LD50 (Oral):

2-BUTOXYETHANOL LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

> 2000 mg/kg/bw/d rat OCSE 402 1200 mg/kg/bw/d rat 3 mg/l/4h

> 2000 mg/kg Ratto

784 mg/kg Female Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

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

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

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 11. Toxicological information ... / >>

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

1,2-BENZISOTHIAZOLINE 3 (2H) -ONE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	2,15 mg/l/96h 2,94 mg/l/48h 0,11 mg/l/72h			
2-BUTOXYETHANOL LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish	1474 mg/l/96h Oncorhynchusmykiss 1550 mg/l/48h Daphnia Magna OCSE 202 911 mg/l/72h OCSE 201 > 100 mg/l 21d OCSE 204			
12.2. Persistence and degradability				
2-BUTOXYETHANOL Rapidly degradable 12.3. Bioaccumulative potential	90,4% 28d OECD 301B			
1,2-BENZISOTHIAZOLINE 3 (2H) -ONE Partition coefficient: n-octanol/water	0,7			
12.4. Mobility in soil				
Information not available				
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. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.





According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

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

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

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 40 Contained substance Point 75 OttmethylCiclotetrasilossano REACH Reg.: 01-2119529238-36-XXXX Point 75 1,2-BENZISOTHIAZOLINE 3 (2H) -ONE REACH Reg.: 01-2120761540-60 Regulation (EU) 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 Regulation (EU) 649/2012:



According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 15. Regulatory information/>>

None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

VOC (Directive 2004/42/EC) : Primers.

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:

Acute Tox. 3 Acute Tox. 4 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 2 H331 H302 H318 H319 H315 H317	Acute toxicity, category 3 Acute toxicity, category 4 Serious eye damage, category 1 Eye irritation, category 2 Skin irritation, category 2 Skin sensitization, category 1 Hazardous to the aquatic environment, acute toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 2 Toxic if inhaled. Harmful if swallowed. Causes serious eye damage. Causes serious eye irritation. Causes skin irritation.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train



According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 16. Other information .../>>

- 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
- vPvM: Very persistent and very mobile
- 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)
- 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)
- 23. Delegated Regulation (UE) 2023/707

- 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 / 04 / 08 / 09 / 11 / 12 / 15 / 16.