Podio **X3**

MSDS & COSHH

COSTA COFFEE PROFESSIONAL

V1.0

Contents

Operator machine guidance website

Scan the QR code for all Operator machine guidance

SCAN ME

Access includes:

Guides

- Replenishment
- Alarm guide
- Drink Preparation

Compliance

- MSDS & COSHH
- Daily compliance log
- Health & Safety

Videos

- Drink preparation
- Machine overview
- Daily cleaning
- Installation
- Descale
- Filter change

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2020/878)

Caffitaly System Descaler

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

1.1. Product identifier

Product name	Caffitaly System Descaler
Product code	70023

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

Use of the Substance/Mixture	Descaling agent
Uses advised against	The product (mixture) should not be used in combination with other cleaning/descaling agents.

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Düring AG Langwiesenstrasse 1 CH-8108 Dällikon Telefon +41 44 847 27 49 www.dueringag.ch www.durgol.com Caffitaly System S.p.A. a socio unico Via Panigali, 38 40041 Gaggio Montano (Bologna) Italy info@caffitaly.com Telefon: +39 0534 38911 www. caffitaly.com
1.4. Emergency telephone number	145 (Tox Info Suisse)
Revision date	08.04.2025
Version	2

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Serious eye damage/eye irritation, Cat. 2, H319

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word

Warning

Hazard Statements

H319: Causes serious eye irritation.

Precautionary statements

P102: Keep out of reach of children.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/ attention.
P337+P313: If eye irritation persists: Get medical advice/ attention.

Supplemental information

None.

Product identifier

Not required.

Contents of package < 125 ml

Warning 

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components	Weight %	CLP Classification	Product identifier
citric acid	5% - 10%	Eye Irrit. 2 H319, STOT SE 3 H335	CAS-No.: 77-92-9 EC-No.: 201-069-1 Index-No: 607-750-00-3
sulphamidic acid; sulphamic acid; sulfamic acid	5% - 10%	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412	CAS-No.: 5329-14-6 EC-No.: 226-218-8 Index-No: 016-026-00-0

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities

None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Consult a physician for severe cases.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Consult a physician for severe cases.
4.2. Most important symptoms and effects, both acute and delayed	The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.
4.3. Indication of any immediate medical attention and special treatment needed	None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.
Unsuitable extinguishing media	High volume water jet.
5.2. Special hazards arising from the substance or mixture	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

5.3. Advice for firefighters

Special protective equipment for firefighters	Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals.
Specific methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust.
For emergency responders	Use personal protective equipment. Do not breathe vapours/dust. Ventilate the area.
6.2. Environmental precautions	Do not flush into surface water or sanitary sewer system.
6.3. Methods and material for containment and cleaning up	Keep in suitable and closed containers for disposal (Plastic container of HDPE).
6.4. Reference to other sections	See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Plan first aid action before beginning work with this product. Do not breathe vapours/dust. Avoid contact with skin and eyes.
7.2. Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in original container. Keep out of the reach of children.
7.3. Specific end use(s)	No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)	No data is available on the product itself.
citric acid (CAS 77-92-9)	
Switzerland - Occupational Exposure Limits - Developmental Risk Groups	Developmental Risk Group C
Switzerland - Occupational Exposure Limits - STELs - (KZGWs)	4 mg/m3 STEL [KZGW] (inhalable dust)
Switzerland - Occupational Exposure Limits - TWAs - (MAKs)	2 mg/m3 TWA [MAK] (inhalable dust)
Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations)	4 mg/m3 Peak (respirable fraction)
Germany - DFG - Recommended Exposure Limits - Pregnancy	no risk to embryo/fetus if exposure limits adhered to
Germany - DFG - Recommended Exposure Limits - TWAs (MAKs)	2 mg/m3 TWA MAK I(2) (inhalable fraction)
Germany - TRGS 900 - Occupational Exposure Limits -	2 mg/m3 TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable

TWAs (AGWs)	fraction, exposure factor 2)

8.2. Exposure controls

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice.
Personal protection equipment	
Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection	Special skin protection is not required. Direct skin contact with the product should be avoided.
Eye protection	Normally no eye protection necessary.
Skin and body protection	No special protective equipment is required.
Thermal hazards	Does not sustain combustion.
Environmental exposure controls	Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Colourless.
Odour	Characteristic.
Melting point/ freezing point:	0 °C - 100 °C
Boiling point or initial boiling point / range:	100 °C
Flammability:	Not determined.
Lower and upper explosion limit:	None.
Flash point:	does not flash
Auto-ignition temperature:	None.
Decomposition temperature:	Not determined.
pH:	Not applicable.
Kinematic viscosity:	Not determined.
Solubility:	completely soluble (Water)
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density:	Not determined.
Relative vapour density:	Not determined.
Particle characteristics:	Not applicable.

9.2. Other information

9.2.1 Information with regard to physical hazard classes	None.
9.2.2 Other safety characteristics	None.

SECTION 10: Stability and reactivity

10.1. Reactivity	Reacts with strong oxidizing agents and alkalis, generating heat. Reacts with carbonates to form carbon dioxide.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	Exothermic reaction with strong bases.
10.4. Conditions to avoid	Burning produces obnoxious and toxic fumes.
10.5. Incompatible materials	Acid-labile plastics (POM), low-grade chrome steel, thin/damaged chrome plating, silver and marble can be attacked.
10.6. Hazardous decomposition products	None reasonably foreseeable.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	**citric acid (CAS 77-92-9)** Dermal LD50 Rat > 2000 mg/kg (EU_CLH) Oral LD50 Rat = 3 g/kg (NLM_CIP) **sulphamidic acid; sulphamic acid; sulfamic acid (CAS 5329-14-6)** Dermal LD50 Rat > 2000 mg/kg (ECHA_API) Oral LD50 Rat = 2140 mg/kg (ECHA)
Skin corrosion/irritation	Mild skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	None.
Carcinogenicity	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - Single exposure	No data available.
Specific target organ toxicity - Repeated exposure	No data available.
Aspiration hazard	No data available.
Human experience	No data available.

11.2. Information on other hazards

Endocrine disrupting properties	No data available.
Other information	No data available.

SECTION 12: Ecological information

12.1. Toxicity	May change pH of waters.
citric acid (CAS 77-92-9)	
EU - Ecolabel (66/2010) - Detergent Ingredient Database - Aerobic Degradation	Readily biodegradable according to OECD guidelines.
EU - Ecolabel (66/2010) - Detergent Ingredient Database - Anaerobic Degradation	Biodegradable under anaerobic conditions.
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Lepomis macrochirus 1516 mg/L (OECD_SIDS)
sulphamidic acid; sulphamic acid; sulfamic acid (CAS 5329-14-6)	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Pimephales promelas 14.2 mg/L [static] (EPA)
12.2. Persistence and degradability	Neutralization is normally necessary before waste water is discharged into water treatment plants.
12.3. Bioaccumulative potential	Bioaccumulation is unlikely.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No data available.
12.6. Endocrine disrupting properties	No data available.
12.7. Other adverse effects	No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

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	Not applicable.
UN Model Regulations	
ADR/RID	Not regulated.
IMDG	Not regulated.
IATA	Not regulated.
Further Information	None.

SECTION 15: Regulatory information

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

Regulatory Information	None.
citric acid (CAS 77-92-9)	
Switzerland - Biocides - Annex II - Active Substances - Minimum Purity	995 g/kg Sunset Date: 02/28/2028
Switzerland - Biocides - Annex II - Active Substances - Product Type	Product Type: 2
Switzerland - Chemical Risk Reduction Ordinance - Prohibited and Restricted Substances	"Use restricted. See annex 2.12 in the regulation (in liquid phase or solution)" As Acids [RR-08658-8]
EU - Biocides (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC	Product type: 2 Product type: 3
EU - Biocides (528/2012/EU) - Active Substances	2 - Disinfectants and algaecides not intended for direct application to humans or animals (Commission Implementing Regulation 2016/1938/EU) 6 - Preservatives for products during storage (Commission Delegated Regulation 2021/407/EU)
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See entry 75.
EU - REACH (1907/2006) - List of Registered Substances	Present

Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 57, hazard class 1 - slightly hazardous to water
UNEP (United Nations Environment Programme) - Basel Convention - Hazardous Wastes - Annex I	"Y34 (solid or solution, listed under Acidic solutions or acids in solid form)" As Acids [RR-08658-8]

sulphamidic acid; sulphamic acid; sulfamic acid (CAS 5329-14-6)

EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See entry 75.
EU - REACH (1907/2006) - List of Registered Intermediates	Present ([226-218-8])
EU - REACH (1907/2006) - List of Registered Substances	Present
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 1266, hazard class 1 - slightly hazardous to water

15.2. Chemical safety assessment	Not required.

SECTION 16: Other information

Key or legend to abbreviations and acronyms	None.
Full text of phrases referred to under sections 2 and 3	H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H412: Harmful to aquatic life with long lasting effects.
Further information	Take notice of the directions of use on the label.
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

DESCRIPTION: LAICA WATER SYSTEM FOR COFFEE MACHINE
COMMERCIAL NAME: LAICA POWER BLU
TYPE CODE (3D) : POWER_P08A

PRODUCT SPECIFICATION

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

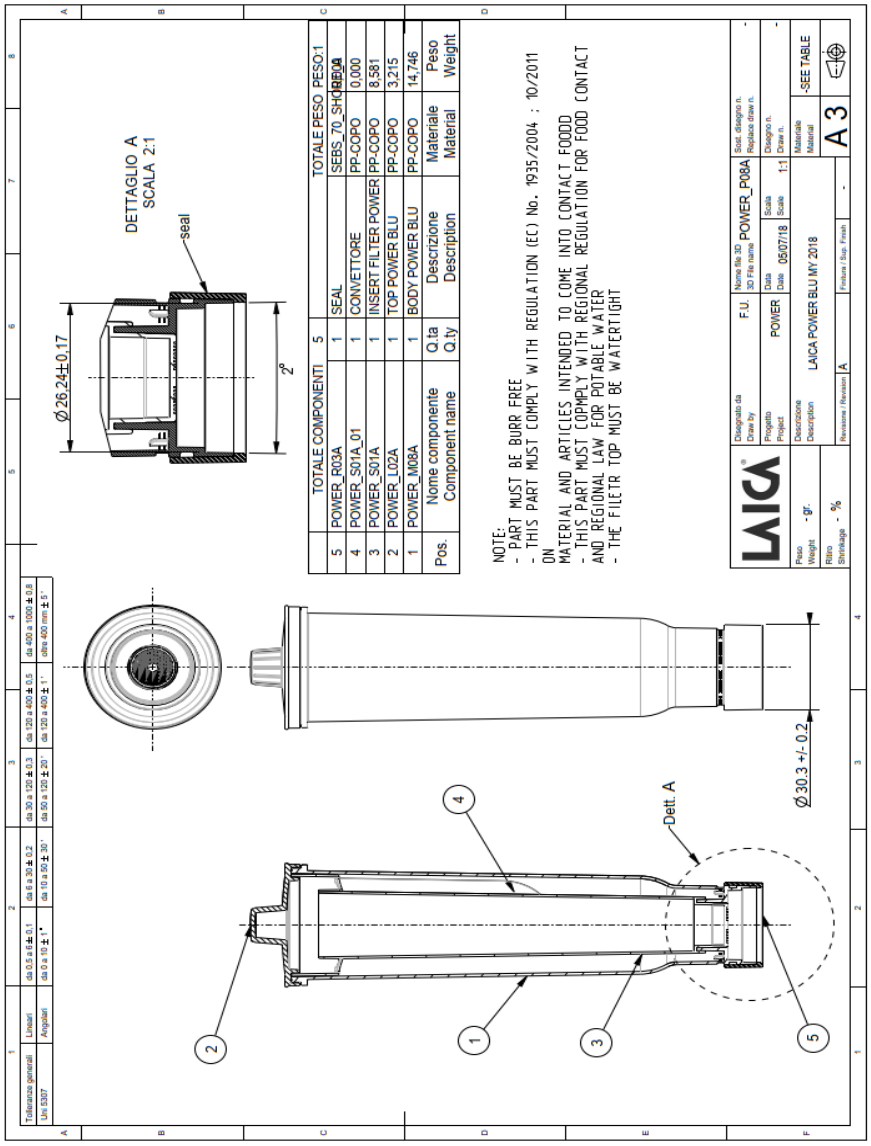
MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

1. IDENTIFICATION DATA

FAMILY PRODUCT	WATER TREATMENT
PRODUCT DENOMINATION	POWER BLU
COMMERCIAL CODE	EOBAB04
SUPPLIER	LAICA SPA - VIALE DEL LAVORO, 10 BARBARANO VIC.NO CAP 36021 (VI)

2. PRODUCT CONFIGURATION



a

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

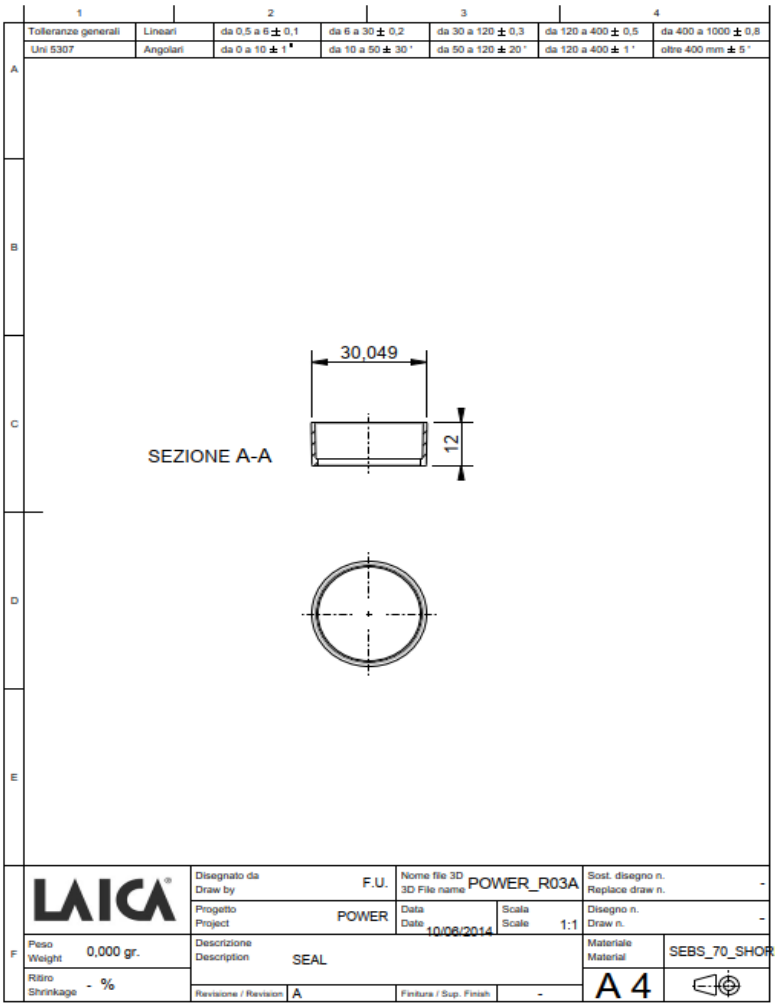
LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

3. BILL OF MATERIAL

CONFIGURAZIONE TIPO STANDARD

ITEM	Q.TA'	DESCRIPTION	3D CODE	MATERIAL	WEIGHT (gr)	CODE	
0	1	Assembly	power_p08a	-			
1	1	main body	power_m08a	PP	17	EBIC010	
2	1	top	power_l02a	PP	7	ETOP009	
5	1	seal	power_r03a	SEBS	1,5	EGUR005	
3	1	Insert	power_s01a	PP	8,6	EINS002	

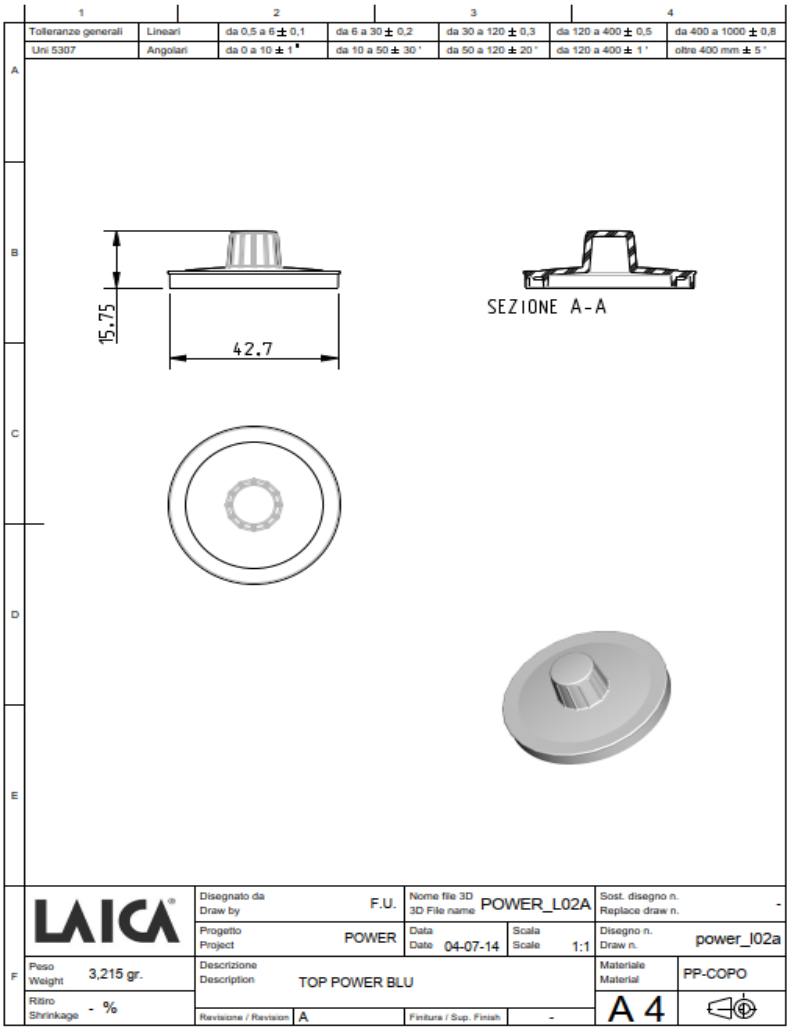
3.1 DRAWINGS



Written by: Franco Uva R&D Checked by: Reviewed by Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

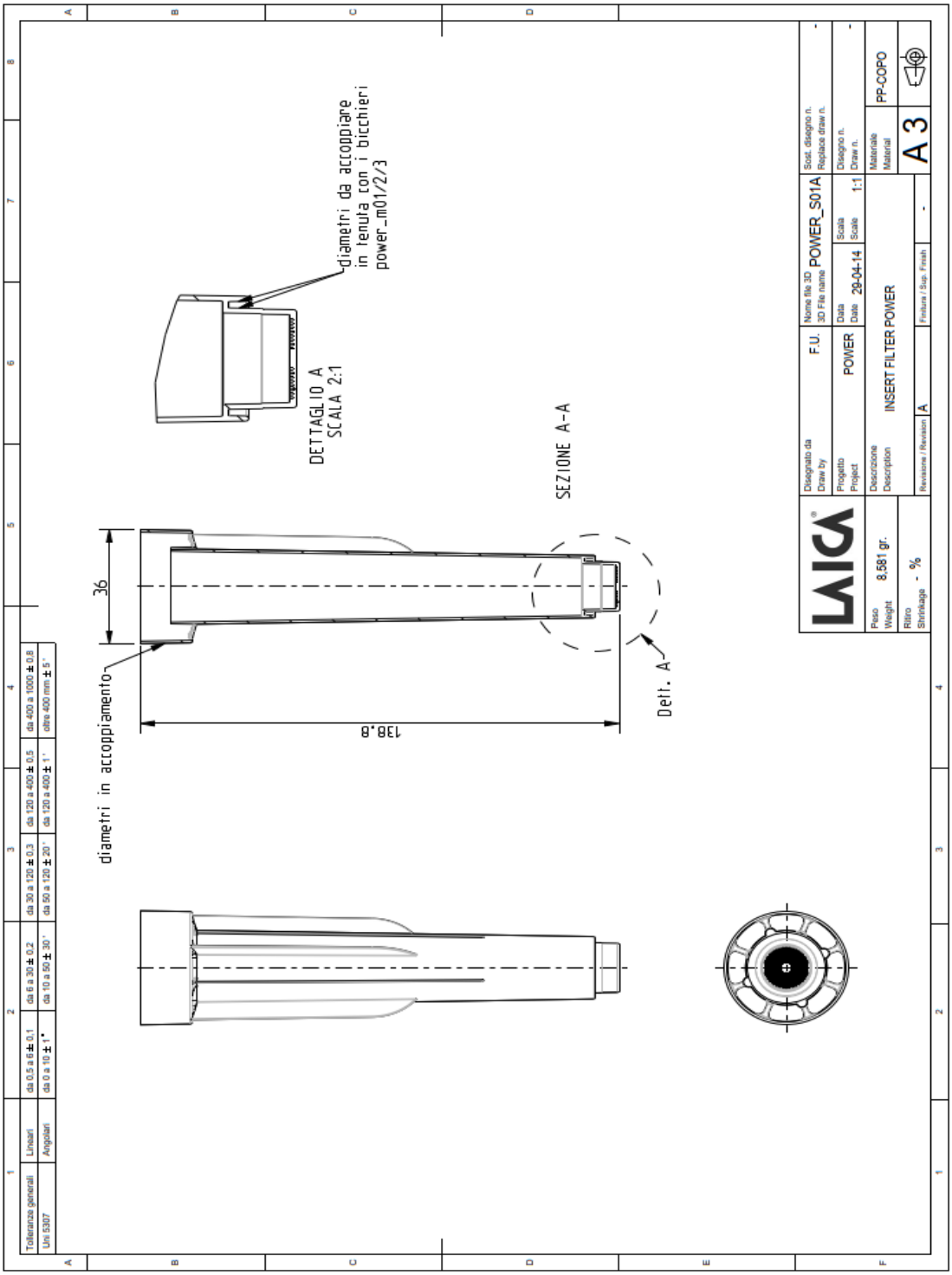
MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021



Written by: Franco Uva R&D Checked by: Reviewed by Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

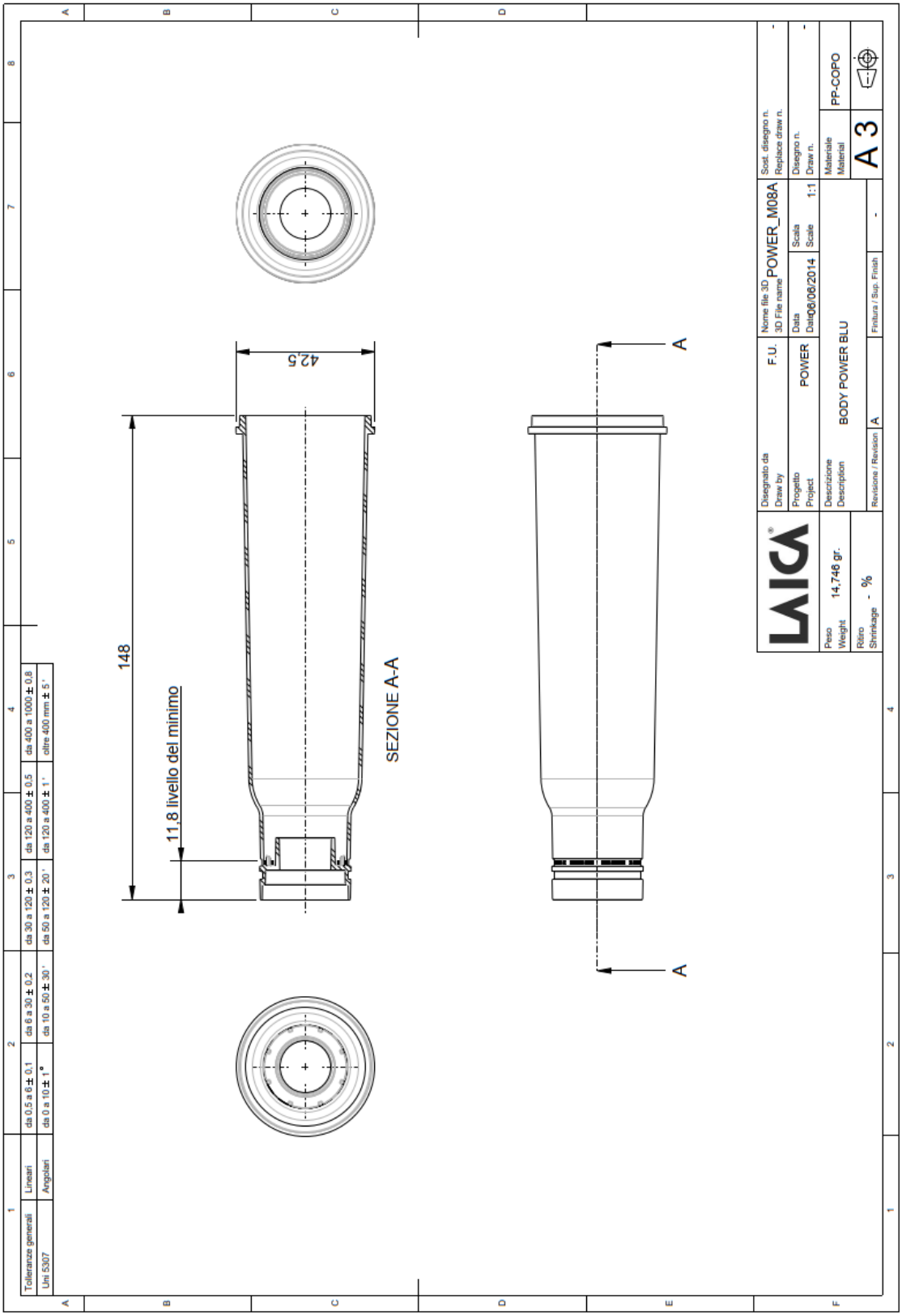
LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021



Written by: Franco Uva R&D Checked by: Reviewed by Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021



Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

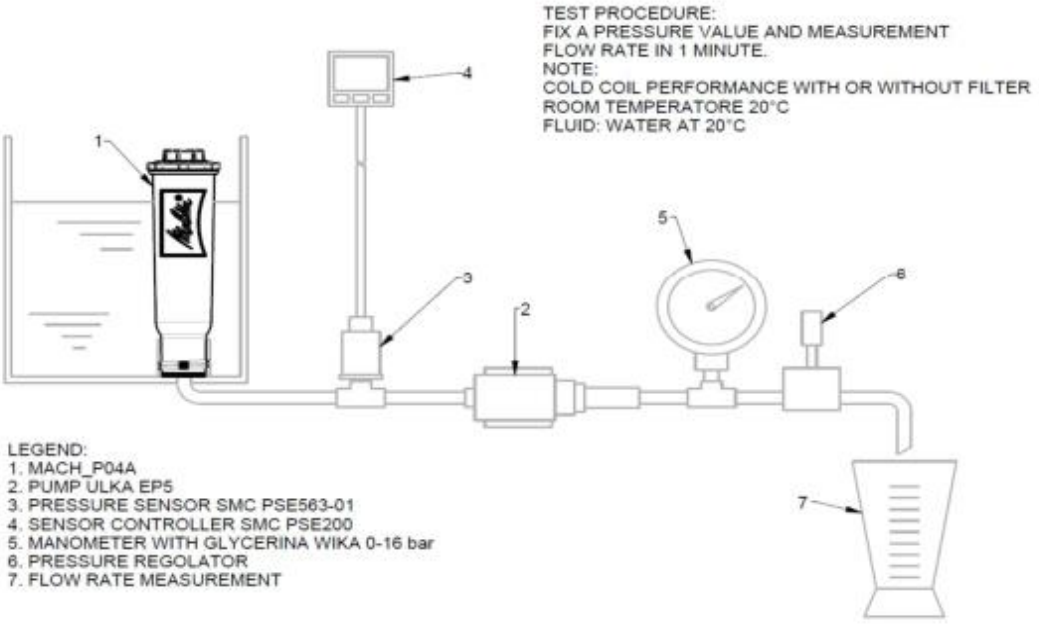
2. MAIN FEATURES AND PERFORMANCE

2.1 VACUUM TEST

Performance of vibration pump type :Ulka EP5 250 volt 50 hz 48w.
Please note: The performance of the pump have a tolerance range about 10%

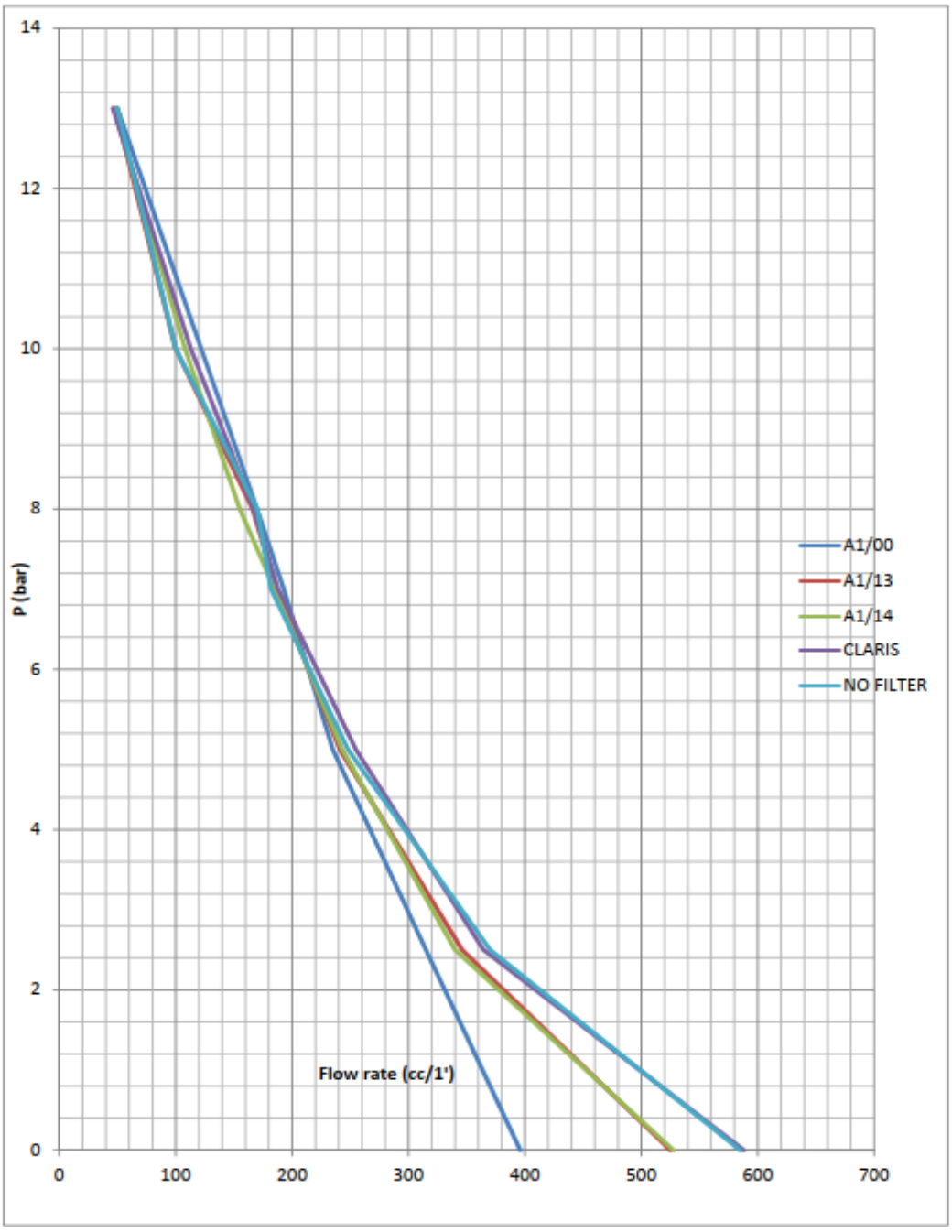
	FILTER TYPE									
	A1/00		A1/13		A1/14		CLARIS		NO FILTER	
P	Q	V	Q	V	Q	V	Q	V	Q	V
0	396	-46	525,0	-33,5	527,5	-35	588	-12	585	
2,5	315	-37	346,0	-23,0	340	-24	364,5	-10	370	
5	235	-30	241,0	-17,0	243	-19	255	-6,5	248	
7	193	-24,5	187,0	-14,0	185	-15	188	-6	182	
8	170	-21,5	166,0	-13,0	155	-13,5	167	-5	170	
10	122	-12	100,0	-9,0	108	-9,5	113	-3	100	
13	50	-4,8	48,0	-4,0	47	-3,5	46	-1	50	

Legend:	A1/00;A1/13;A1/14 (see lab chimico)
P= pression measured in pump output (5), bar	
Q= Flow rate, cc/1'	
V= Vacuum level measured in pump imput (3), Kpa	



MSDS & COSHH

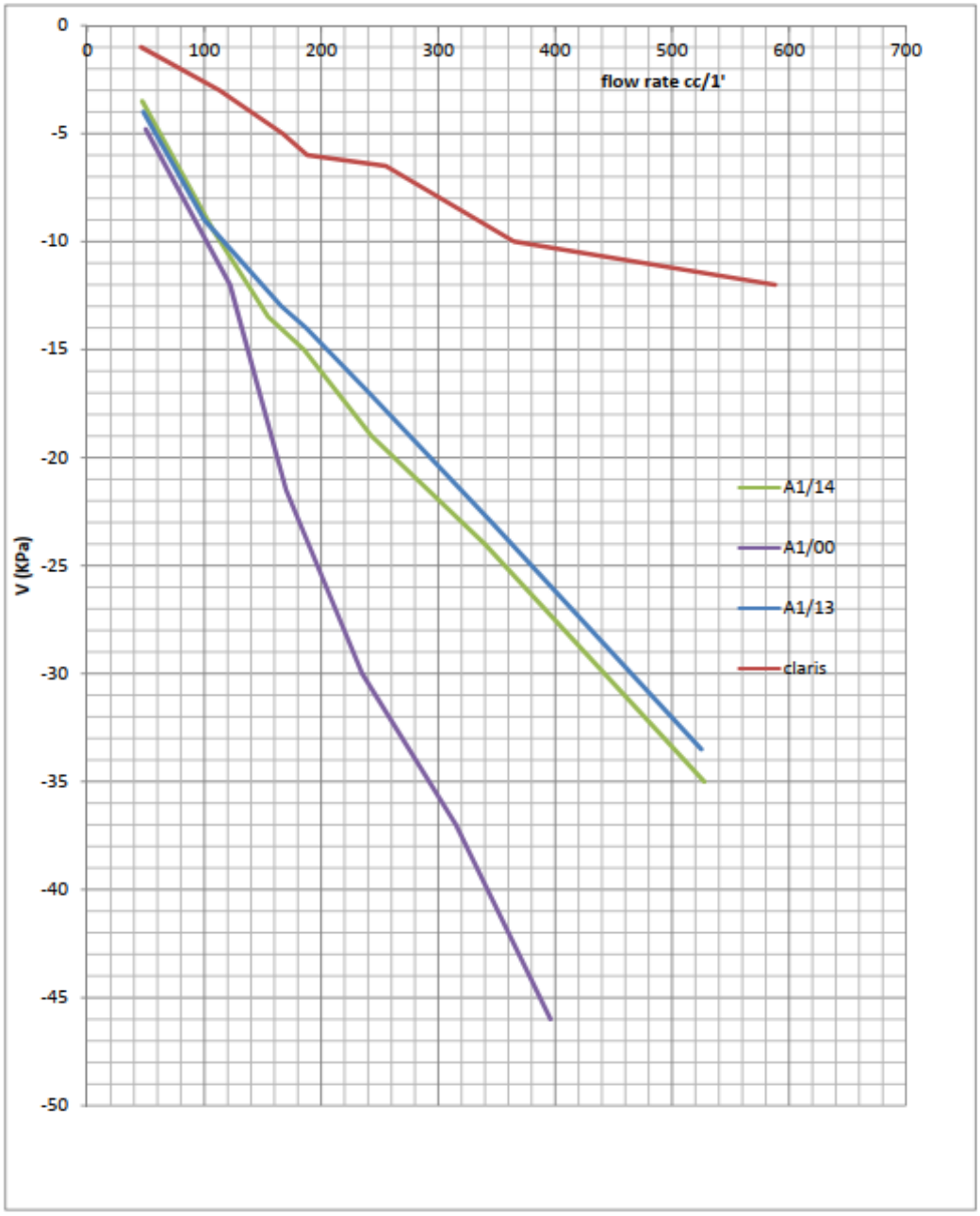
LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021



Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

Pressure drop diagram of Laica water filter system type power_p04a.

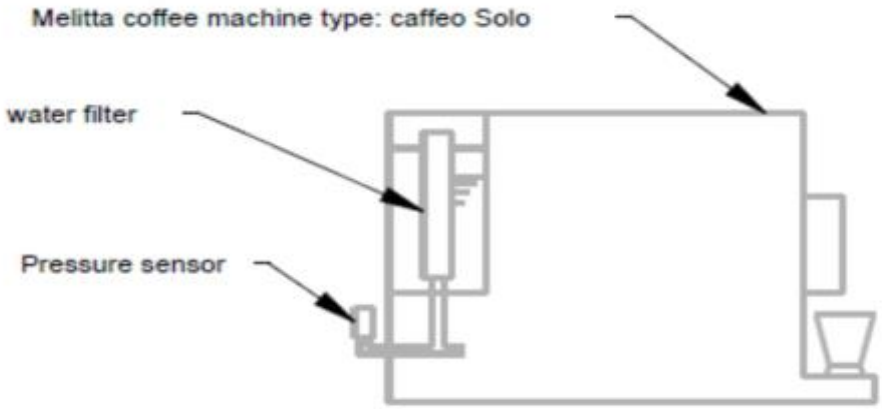


Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

Vacuum test in Melitta cofee machine type Caffeo Solo



FILTER TYPE	lordo	tara	netto
B1/14	127,5	29,2	98,3
claris	108	24	83,8

	cycle time s.	preparation time s.	dispensed time s.	Q/media (cc/1') no filtro	Q media B1/14	vacuum media Kpa
min	27	20	7	223	177	-19,5
med	53	20	33	240,9	217	-22
max	70	20	50	261,6	254	-20

DECLARATION FROM FABBRICANT			
REGULATOR	MIN	MED	MAX
DISPENSED QUANTITY (cc)	30	125	220

Written by: Franco Uva R&D	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.
Checked by:	
Reviewed by:	
Approved by:	

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

DISPENSED COMPARATION TEST															
		06/05/2014			14/05/2014										
filter type	Regulator	vacuum (Kpa)	Quantity (cc)	Media	Quantity (cc)	Vacuum (Kpa)	Quantity (cc)	Vacuum (Kpa)	Quantity (cc)	Vacuum (Kpa)	Quantity (cc)	Vacuum (Kpa)	Quantity (cc)	Vacuum (Kpa)	
no	min		24	26,1	29										
no	min		25		28										
no	min		27												
no	min		29,5												
no	min		25												
no	med		134,5	132,5	132,5										
no	med	/	132		132,8	/	/		/		/		/		
no	med		131												
no	max		221	218	220,3										
no	max		221		222,8										
no	max		226,5												
no	max		222												
no	max		223												
no	max		194,5												
B1/00	min	-43	21	20,5											
B1/00	min	-45	20												
B1/00	med	-46	110	110											
B1/00	max	-46	192	189,3											
B1/00	max	-46	190,5												
B1/00	max	-45	185,5												
B1/13	min	-32	20	20	24	-27									
B1/13	med	-35	110	110	116	-30									
B1/13	max	-36	202,5	201	205	-30									
B1/13	max	-36	200		203	-30									
B1/14	min	-20	17,52	20,67	25	-14									
B1/14	min	-20	16		26,7	-14									
B1/14	min	-20	19,64												
B1/14	min	-20	20												
B1/14	min	-20	24												
B1/14	min	-16	26,5												
B1/14	min	-21	21												
B1/14	med	-22	120	119,5	132,5	-10									
B1/14	med	-22	119		132,8	-11									
B1/14	max	-22	205	212,4	225	-12									
B1/14	max	-23	212,5		225,8	-12									
B1/14	max	-23	206,5												
B1/14	max	-23	208,5												
B1/14	max	-23	208												
B1/14	max	-14	223												
B1/14	max	-16	223												
claris	max	-1	219	222,3											
claris	max	-2,5	224												
claris	max	-2	223												
claris	max	-3	223												
bwt	max	-1,5	219,5	219,5											

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

2.2 DESCALING AND PH TEST

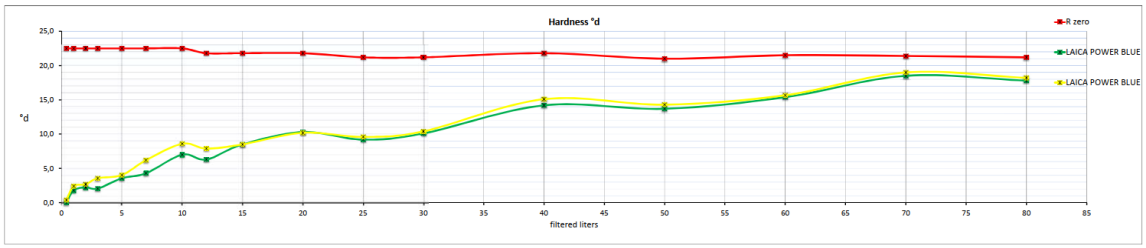
LAICA

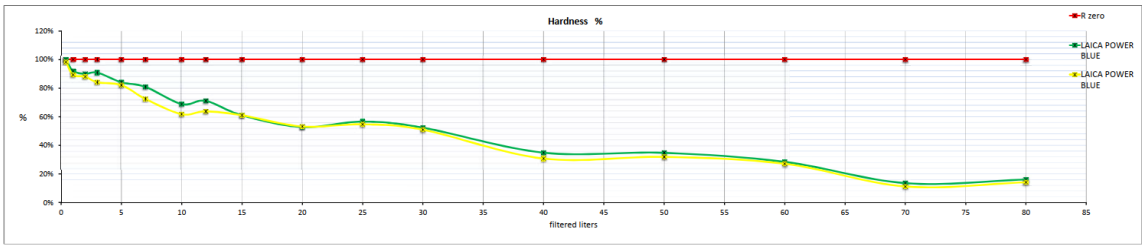
Test report

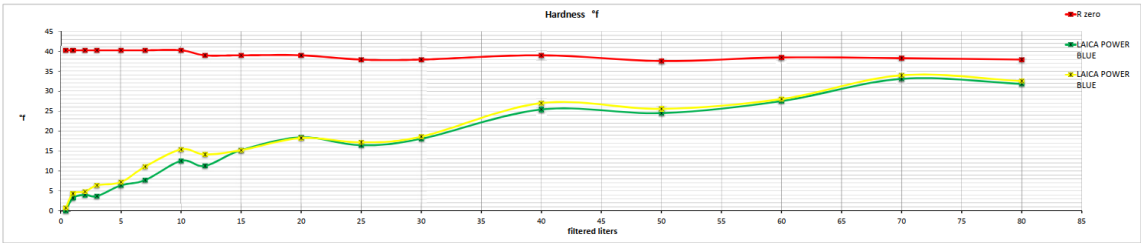
DOCUMENT No.	**Test_16**	TEST METHOD
DATE	22/09/2021	
LOCATION	Internal Laica Lab.	*Each filter cartridge is placed inside a tank, housed on a connection fitting, simulating the original unit.*
HARDNESS WATER	25°± 2°f	Each filter cartridge is connected to a piston pump with fixed capacity. The pump is controlled by a timer that sets the cycles. The cycles are regulated by: (1) activation pump ON (2) pump mode sleep. The challenge water (R0) is made with tap water, and hardness up to 20 ° d (35 ° F) ± 2 ° d.
CHALLENGE WATER	R0 TANK	
TEMPERATURE CHALLENGE WATER R0	22°± 2°C	Hardness test is carried out with Nanocolor equipment
HARDNESS CHALLENGE WATER	R0 as shown	PH testing is performed with HANNA testers.
TEST METHOD	PISTON PUMP 200cc each 12min	The system takes on average 200 cc/20 seconds every 12 minutes

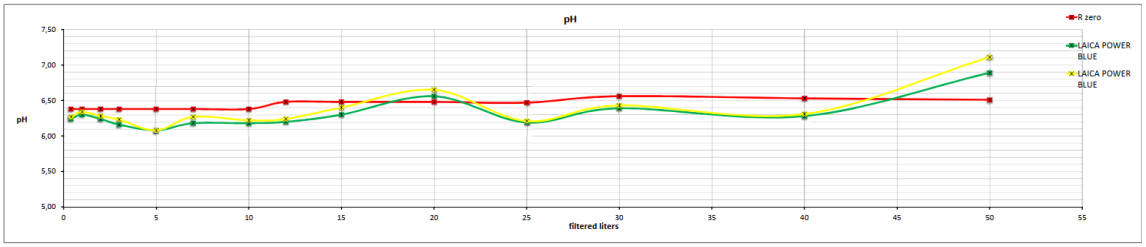
	R zero						LAICA POWER BLUE									
Lt	R0 °d	R0 °f	pH	Ca^{2+} mg/L	Mg^{2+} mg/L	Na^{+} mg/L	°d	°f	pH	T (°C)	%	Ca^{2+} mg/L	Ca^{2+} %	Mg^{2+} mg/L	Mg^{2+} %	Na^{+} mg/L	H_2O ml
0,4	22,5	40,3	6,38	101	25	1,2	0,0	0,0	6,24	23,6	100%	0	100%	0	100%	152	200
1	22,5	40,3	6,38	101	25	1,2	1,8	3,2	6,30	21,4	92%	0	100%	0	100%	131	200
2	22,5	40,3	6,38	101	25	1,2	2,2	4,0	6,24	22,6	90%	0	100%	0	100%	122	200
3	22,5	40,3	6,38	101	25	1,2	2,1	3,7	6,16	22,6	91%	0	100%	0	100%	119	200
5	22,5	40,3	6,38	101	25	1,2	3,6	6,4	6,08	23,8	84%	17	83%	5	80%	65,4	200
7	22,5	40,3	6,38	101	25	1,2	4,3	7,7	6,18	22,0	81%	23	77%	5	80%	51,4	200
10	22,5	40,3	6,38	101	25	1,2	7,0	12,5	6,18	23,4	69%	35	66%	12	52%	25,8	200
12	21,8	39,0	6,48	97	28	1,1	6,3	11,3	6,20	22,1	71%	36	63%	7	75%	7,7	200
15	21,8	39,0	6,48	97	28	1,1	8,5	15,2	6,30	23,1	61%	41	58%	11	61%	2,0	200
20	21,8	39,0	6,48	97	28	1,1	10,3	18,4	6,56	23,8	53%	52	46%	14	50%	2,7	200
25	21,2	37,9	6,47	102	28	2,1	9,2	16,5	6,19	23,4	57%	58	43%	14	50%	3,1	200
30	21,2	37,9	6,56	102	28	2,1	10,1	18,1	6,39	24,2	52%	55	46%	16	43%	3,2	200
40	21,8	39,0	6,53	112	35	2,1	14,2	25,4	6,28	24,3	35%	54	52%	29	17%	3,9	200
50	21,0	37,6	6,51	92	31	3,1	13,7	24,5	6,89	23,5	35%	69	25%	25	19%	4,5	200
60	21,5	38,5	6,63	114	37	3,6	15,4	27,5	6,58	21,5	28%	54	53%	34	8%	4,7	200
70	21,4	38,3	6,87	110	34	2,1	18,5	33,1	6,44	22,3	14%	65	41%	30	12%	4,6	200
80	21,2	37,9	7,29	129	36	3,9	17,8	31,9	6,74	22,6	16%	84	35%	35	3%	5,0	200

LAICA POWER BLUE											
°d	°f	pH	T (°C)	%	Ca^{2+} mg/L	Ca^{2+} %	Mg^{2+} mg/L	Mg^{2+} %	Na^{+} mg/L	H_2O ml	
0,4	0,7	6,27	23,6	98%	0	100%	0	100%	159	200	
2,4	4,3	6,34	21,4	89%	0	100%	0	100%	134	20	
2,7	4,8	6,28	22,6	88%	0	100%	0	100%	119	200	
3,6	6,4	6,23	22,6	84%	0	100%	0	100%	112	200	
4,0	7,2	6,08	23,8	82%	20	80%	5	80%	67,1	200	
6,2	11,1	6,27	22,0	72%	31	69%	9	64%	44,2	200	
8,6	15,4	6,22	23,4	62%	38	63%	16	36%	20,7	200	
7,9	14,1	6,24	22,1	64%	40	59%	10	64%	4,6	200	
8,5	15,2	6,40	23,1	61%	43	56%	10	64%	2,4	200	
10,2	18,3	6,65	23,8	53%	52	46%	11	61%	2,6	200	
9,6	17,2	6,21	23,4	55%	57	44%	12	57%	2,5	200	
10,4	18,6	6,43	24,2	51%	56	45%	16	43%	3,1	200	
15,1	27,0	6,31	24,3	31%	61	46%	30	14%	4,1	200	
14,3	25,6	7,11	23,5	32%	68	26%	27	13%	4,2	200	
15,7	28,0	6,92	21,5	27%	60	47%	33	11%	4,0	200	
19,0	34,0	6,50	22,3	11%	68	38%	32	6%	4,4	200	
18,2	32,6	6,84	22,6	14%	92	29%	35	3%	4,8	200	









Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: 21RP05000 del 29/10/2021

Spett.
LAICA S.p.A.
Viale del Lavoro, 10
36054Bassano Massano (VI)

Dati di accettazione
Matrice: **Acque di processo**
Trasporto: **Cliente**
Data arrivo: **26/10/2021** Ora arrivo: **12.52**
Data accettazione: **26/10/2021**

Dati relativi al campione (C)

Descrizione: **Acqua del 21/10/2021 - Litro: 0 - Lotto Acqua Boario**

Dati relativi al campionamento

Campionamento a cura di: **Cliente**
Luogo: **Sede del Cliente**

Pagina 1 di 2

chimicambiente

Rapporto di prova n°: 21RP05000 del 29/10/2021

Parametro - Specifiche	U.M.	Risultato Note	LoQ	Lab	Inizio prova / Fine prova
Durezza totale	mg/CaCO3	498	4.9		
APAT CNR IRSA 2040 B Man 29 2003					
Alcalinità	meq/l	4.9	4.1		
APAT CNR IRSA 2010 B Man 29 2003					
P - Punto di equivalenza alla fenolftaleina	meq/l	NQ	4.1		
APAT CNR IRSA 2010 B Man 29 2003					
T - Punto di equivalenza all'indicatore misto	meq/l	4.9	4.1		
APAT CNR IRSA 2010 B Man 29 2003					
21RP05000/01 Durezza permanente					
Parametro - Specifiche	U.M.	Risultato Note	LoQ	Lab	Inizio prova / Fine prova
Durezza permanente (dopo ebollizione)	mg/CaCO3	288	4.9		
APAT CNR IRSA 2040 B Man 29 2003					

Direttore Tecnico
Dr. Giovanni Mitaritonna
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

Fine Rapporto di Prova

Pagina 2 di 2

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

	LAICA spa				
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: 21RP04992 del 29/10/2021

Spett.
LAICA S.p.A.
Viale del Lavoro, 10
36034Bartolomeo Molsarino (VI)

Dati di accettazione
Matrice: Acque di processo
Trasporto: Cliente
Data arrivo: 26/10/2021 Ora arrivo: 12.52
Data accettazione: 26/10/2021

Dati relativi al campione (C)
Descrizione: Acqua del 13/10/2021 - Litro: 1 - Lotto AA

Dati relativi al campionamento
Campionamento a cura di: Cliente
Luogo: Sede del Cliente

Pagina 1 di 2

chimicambiente

Rapporto di prova n°: 21RP04992 del 29/10/2021

Parametro - Specifiche	U.M.	Risultato	Note	LoD	LoQ	Inizio prova / Fine prova
Durezza totale	mg CaCO3/l	2.7		4.5		29/10/21
APAT CNR IRSA 2040 B Man 29 2003						29/10/21
Alcalinità	meq/l	1.8		0.1		29/10/21
APAT CNR IRSA 2010 B Man 29 2003						29/10/21
P - Punto di equivalenza alla fenolftaleina	meq/l	NQ		0.1		
APAT CNR IRSA 2010 B Man 29 2003						
T - Punto di equivalenza all'indicatore misto	meq/l	1.8		0.1		
APAT CNR IRSA 2010 B Man 29 2003						

21RP04992/01 Durezza permanente

Parametro - Specifiche	U.M.	Risultato	Note	LoD	LoQ	Inizio prova / Fine prova
Durezza permanente (dopo ebollizione)	mg CaCO3/l	2.5		4.5		29/10/21
APAT CNR IRSA 2040 B Man 29 2003						29/10/21

Campione di campionamento non a carico di Chimicambiente S.r.l., quest'ultima declina ogni responsabilità in merito alle informazioni relative al campionamento di quanto fornito dal Cliente/Committente. I risultati delle prove si riferiscono esclusivamente al campione così ricevuto. Quando quest'ultimo campionamento non rispettasse le condizioni ottimali di conservazione, tempi di trasporto, ecc. tali da compromettere la validità delle prove richieste, il Laboratorio si riserva di accettare o meno il campione. Il campione sarà conservato per una "q" tal da tempo stabilito dal Cliente/Committente. Il campione sarà conservato per una "q" tal da tempo stabilito dal Cliente/Committente. Il campione sarà conservato per una "q" tal da tempo stabilito dal Cliente/Committente. Qualora il campione fosse non idoneo ma il Cliente/Committente consigliasse di proseguire ugualmente, il laboratorio declina ogni responsabilità sui risultati che potrebbero essere influenzati dallo scostamento.

LEGENDA: **U.M.** = unità di misura; **(mg/l)** = Limite superiore; **LoD** = Limite inferiore; **LoQ** = limite di quantificazione, è il limite inferiore di concentrazione sopra al quale è possibile misurare strumentalmente una risposta di tipo quantitativo; in microbiologia il LoQ è di natura teorica; **LoD** = limite di rilevabilità, è il limite inferiore di concentrazione sopra al quale è possibile rilevare la presenza di un analita; il campione non può essere rilevato, nello analisi qualitative rappresenta la minima concentrazione alla quale è possibile determinare o meno la presenza di un analita; **NQ** = non quantificabile, indica un valore inferiore a LoQ; **NR** = non rilevato, indica un valore inferiore a LoD; **"n.a"** o **"na"** indicano rispettivamente un valore inferiore al LoD o non applicabile; **n.d.** = non disponibile alla prova; **M.I.** = Metodo interno.
(R): indica una modifica rispetto alla versione precedente del Rapporto di prova.
(M): indica che la provabilità è stata eseguita in subappalto.

I risultati analitici si riferiscono esclusivamente al campione sottoposto a prova.
La riproduzione parziale del presente rapporto di prova non è consentita senza autorizzazione scritta del laboratorio.
I campioni vengono conservati presso il laboratorio per 2 settimane dalla data di fine prova, salvo diverse indicazioni.
La registrazione delle prove effettuate vengono conservate dal laboratorio per 5 anni dall'emissione del rapporto di prova.
SE NON DIVERSAMENTE SPECIFICATO i risultati del presente rapporto di prova non risultano corretti per i fattori di recupero (R) in quanto i valori del recupero rientrano nella tolleranza indicata nel metodo di prova; le sommatorie sono calcolate rendendo il criterio del lower bound (LB) il verbale di campionamento viene identificato ed archiviato con il medesimo codice di accettazione del campione apposto con il relativo numero d'ordine.

Conclusioni:

Parti (Durezza apparente) = Alcalinità totale + Durezza permanente - Durezza totale = 79.6 mg/l CaCO3

Direttore Tecnico
Dr. Giovanni Mistrorigo
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

Fine Rapporto di Prova

Pagina 2 di 2

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: 21RP04993 del 29/10/2021

Spett.
LAICA S.p.A.
Viale del Lavoro, 10
36040Barbarano Mossano (VI)

Dati di accettazione

Matrice: Acque di processo
Trasporto: Cliente
Data arrivo: 26/10/2021 Ora arrivo: 12.52
Data accettazione: 26/10/2021

Dati relativi al campione (C)

Descrizione: Acqua del 13/10/2021 - Litro: 1 - Lotto BB

Dati relativi al campionamento

Campionamento a cura di: Cliente
Luogo: Sede del Cliente

chimicambiente

Rapporto di prova n°: 21RP04993 del 29/10/2021

Parametro - Specifiche	U.M.	Risultato / Note	LoQ	LoD	Inizio prova / Fine prova
Durezza totale	mg/l CaCO3	5.7	4.0		27/10/21 / 27/10/21
APAT CNR IRSA 2040 B Man 29 2003					
Alcalinità	meq/l	1.4	0.1		26/10/21 / 26/10/21
APAT CNR IRSA 2010 B Man 29 2003					
P - Punto di equivalenza alla fenolftaleina	meq/l	NQ	0.1		
APAT CNR IRSA 2010 B Man 29 2003					
T - Punto di equivalenza all'indicatore misto	meq/l	1.4	0.1		
APAT CNR IRSA 2010 B Man 29 2003					
21RP04993/01 Durezza permanente					
Parametro - Specifiche	U.M.	Risultato / Note	LoQ	LoD	Inizio prova / Fine prova
Durezza permanente (dopo ebollizione)	mg/l CaCO3	5.3	4.0		27/10/21 / 27/10/21
APAT CNR IRSA 2040 B Man 29 2003					

Direttore Tecnico
Dr. Giovanni Milantonna
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

Fine Rapporto di Prova

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: **21RP04994 del 29/10/2021**

Spett.
LAICA S.p.A.
Viale del Lavoro, 10
36046Barbarano Mossano (VI)

Dati di accettazione

Matrice: **Acque di processo**
Trasporto: **Cliente**
Data arrivo: **26/10/2021** Ora arrivo: **12.52**
Data accettazione: **26/10/2021**

Dati relativi al campione (C)

Descrizione: **Acqua del 14/10/2021 - Litro: 25 - Lotto AA**

Dati relativi al campionamento

Campionamento a cura di: **Cliente**
Luogo: **Sede del Cliente**

CHIMICAMBIENTE SRL – Sede legale ed operativa: Via Leonardo da Vinci, 2 – 35042 ESTE (PD)
Tel. 0429 600482 - C.F./P.IVA, n°Iscr. Reg. Imp. 04955500289 R.E.A. 424299 - SDI: M5UXCR1
www.chimicambiente.net – e-mail: info@chimicambiente.net – pec.: chimicambientesrl@pec.it

Stampato in data: 29/10/2021

Pagina 1 di 2

chimicambiente

Rapporto di prova n°: **21RP04994 del 29/10/2021**

Descrizione - Specifiche	U.M.	Risultato finale	LoQ	LoD	Inizio prova / Fine prova
Durezza totale	mg/l CaCO3	273	4,5		29/10/21 29/10/21
APAT CNR IRSA 2040 B Man 29 2003					
Alcalinità	mg/l	0,8	4,1		29/10/21 29/10/21
APAT CNR IRSA 2010 B Man 29 2003					
P - Punto di equivalenza alla fenolftaleina	mg/l	NQ	4,1		
APAT CNR IRSA 2010 B Man 29 2003					
T - Punto di equivalenza all'indicatore misto	mg/l	0,8	4,1		
APAT CNR IRSA 2010 B Man 29 2003					
21RP04994/01 Durezza permanente					
Durezza permanente (dopo ebollizione)	mg/l CaCO3	264	4,5		29/10/21 29/10/21
APAT CNR IRSA 2040 B Man 29 2003					

Direttore Tecnico
Dr. Giovanni Milanbonna
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 916 SEZ. A

Fine Rapporto di Prova

Stampato in data: 29/10/2021

Pagina 2 di 2

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

Strix	LAICA spa				
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: 21RP04995 del 29/10/2021

Spett.
LAICA S.p.A.
Viale del Lavoro, 10
36044Bartolameo Missaino (VI)

Dati di accettazione
Matrice: Acque di processo
Trasporto: Cliente
Data arrivo: 26/10/2021 Ora arrivo: 12.52
Data accettazione: 26/10/2021

Dati relativi al campione (*)
Descrizione: Acqua del 14/10/2021 - Litro: 25 - Lotto BB

Dati relativi al campionamento
Campionamento a cura di: Cliente
Luogo: Sede del Cliente

Pagina 1 di 2

chimicambiente

Rapporto di prova n°: 21RP04995 del 29/10/2021

Parametro - Specifiche	U.M.	Risultato Note	LoD	LoQ	Inizio prova / Finitura
Durezza totale	mg/CaCO3	291	0,5		26/10/21 / 26/10/21
APAT CNR IRSA 2040 B Man 29 2003					
Alcalinità	meq/l	1,1	0,1		26/10/21 / 26/10/21
APAT CNR IRSA 2010 B Man 29 2003					
P - Punto di equivalenza alla fenolftaleina	meq/l	NQ	0,1		
APAT CNR IRSA 2010 B Man 29 2003					
T - Punto di equivalenza all'indicatore misto	meq/l	1,1	0,1		
APAT CNR IRSA 2010 B Man 29 2003					
21RP04995/01 Durezza permanente					
Parametro - Specifiche	U.M.	Risultato Note	LoD	LoQ	Inizio prova / Finitura
Durezza permanente (Oltre ebollizione)	mg/CaCO3	286	0,5		26/10/21 / 26/10/21
APAT CNR IRSA 2040 B Man 29 2003					

Direttore Tecnico
Dr. Giovanni Milantonna
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

Fine Rapporto di Prova

Pagina 2 di 2

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: 21RP04996 del 29/10/2021

Spett.
LAICA S.p.A.
Viale del Lavoro, 10
36034Bertiarano Mossano (VI)

Dati di accettazione
Matrice: **Acque di processo**
Trasporto: **Cliente**
Data arrivo: **26/10/2021** Ora arrivo: **12.52**
Data accettazione: **29/10/2021**

Dati relativi al campione (C)
Descrizione: **Acqua del 19/10/2021 - Litro: 50 - Lotto AA**

Dati relativi al campionamento
Campionamento a cura di: **Cliente**
Luogo: **Sede del Cliente**

chimicambiente

Rapporto di prova n°: 21RP04996 del 29/10/2021

Parametro - Specifiche	U.M.	Risultato Note	LoD	LoQ	Inizio prova Fine prova
Durezza totale	mg CaCO3/l	301	n.r.		27/10/21 27/10/21
APAT CNR IRSA 2040 B Man 29 2003					
Alcalinità	meq/l	1.8	n.r.		26/10/21 26/10/21
APAT CNR IRSA 2010 B Man 29 2003					
P - Punto di equivalenza alla fenolftaleina	meq/l	NQ	n.r.		
APAT CNR IRSA 2010 B Man 29 2003					
T - Punto di equivalenza all'indicatore misto	meq/l	1.8	n.r.		
APAT CNR IRSA 2010 B Man 29 2003					
21RP04996/01 Durezza permanente					
Parametro - Specifiche	U.M.	Risultato Note	LoD	LoQ	Inizio prova Fine prova
Durezza permanente (dopo ebollizione)	mg CaCO3/l	256	n.r.		27/10/21 27/10/21
APAT CNR IRSA 2040 B Man 29 2003					

Direttore Tecnico
Dr. Giovanni Milanfranna
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

Fine Rapporto di Prova

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

Strix	LAICA spa				
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: **21RP04997** del **29/10/2021**

Spett.
LAICA S.p.A.
Viale dell'Lavoro, 10
36040Barbarano Mossano (VI)

Dati di accettazione
Matrice: **Acque di processo**
Trasporto: **Cliente**
Data arrivo: **26/10/2021** Ora arrivo: **12.52**
Data accettazione: **28/10/2021**

Dati relativi al campione (C)
Descrizione: **Acqua del 19/10/2021 - Litro: 55 - Lotto BB**

Dati relativi al campionamento
Campionamento a cura di: **Cliente**
Luogo: **Sede del Cliente**

Stampato in data: 29/10/2021

Pagina 1 di 2

chimicambiente

Rapporto di prova n°: **21RP04997** del **29/10/2021**

Parametro - Specifiche	U.M.	Risultato Note	LoQ	Lod	Inizio prova Fine prova
Durezza totale	mg/l CaCO3	271	4,5		29/10/21 29/10/21
APAT CNR IRSA 2040 B Man 29 2003					
Alcalinità	meq/l	1,3	0,1		29/10/21 29/10/21
APAT CNR IRSA 2010 B Man 29 2003					
P - Punto di equivalenza alla fenolftalina	meq/l	NQ	0,1		
APAT CNR IRSA 2010 B Man 29 2003					
T - Punto di equivalenza all'indicatore misto	meq/l	1,3	0,1		
APAT CNR IRSA 2010 B Man 29 2003					
21RP04997/01 Durezza permanente					
Parametro - Specifiche	U.M.	Risultato Note	LoQ	Lod	Inizio prova Fine prova
Durezza permanente (Oltre ebollizione)	mg/l CaCO3	267	4,5		29/10/21 29/10/21
APAT CNR IRSA 2040 B Man 29 2003					

Questo è il campionamento non sia a carico di Chimicambiente S.r.l., quest'ultima declina ogni responsabilità in ordine alle informazioni relative al campionamento in quanto effettuato a cura del Committente. I risultati sono riferiti esclusivamente al campione così come ricevuto. Il laboratorio declina ogni responsabilità per eventuali danni derivanti da un uso scorretto dei risultati. Il presente rapporto di prova non può essere riprodotto se non integralmente senza autorizzazione scritta del laboratorio. Il campione sarà conservato per 30 giorni dalla data di emissione del presente rapporto di prova, trascorsi i quali verrà smaltito. Eventuali richieste successive a tale periodo dovranno essere concordate con il laboratorio. Il laboratorio declina ogni responsabilità sui risultati che potrebbero essere rilevati dallo stesso successivamente.

LEGENDA: **U.M.** = unità di misura; **(meq)** = Limite superiore; **(pH)** = Limite inferiore; **LoQ** = limite di quantificazione, è il limite inferiore di concentrazione sopra al quale possiamo ottenere strumentalmente una misura di tipo quantitativo; in microbiologia il LoQ è di natura tecnica; **LoD** = limite di rilevabilità, è il limite inferiore di concentrazione sopra al quale siamo in grado di campione non può essere rilevato, nella pratica corrisponde a 3 volte la deviazione standard della bianca; **NQ** = Non Quantificabile, indica che il risultato è superiore al LoD ma inferiore al LoQ; **< "n"** = indica che il risultato è inferiore al LoD; **> "n"** = indica che il risultato è superiore all'intervallo di misura della prova; **ass** = assente; **pres** = presente; **N.R.** = il risultato; **N.A.** = non applicabile alla prova; **M.I.** = Metodo interno.
(I/I) Indica una modifica rispetto alla versione precedente del Rapporto di prova.
(M) Indica che la prova/attività è stata eseguita in subappalto.

I risultati analitici si riferiscono esclusivamente al campione sottoposto a prova.
La riproduzione parziale del presente rapporto di prova non è consentita senza autorizzazione scritta del laboratorio.
Campione vengono conservati presso il laboratorio per 2 settimane dalla data di fine prova, salvo diverse indicazioni.
Le registrazioni delle prove effettuate vengono conservate dal laboratorio per 5 anni dall'emissione del rapporto di prova.

SE NON DIVERSAMENTE SPECIFICATO i risultati del presente rapporto di prova non risultano corretti per i fattori di recupero (R) in quanto i valori del recupero rientrano nella tolleranza indicata nel metodo di prova; le incertezze sono calcolate mediante il criterio del lower bound (L.B.); il verbale di campionamento viene identificato con il numero del rapporto di prova.

Direttore Tecnico
Dr. Giovanni Milantoni
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

Fine Rapporto di Prova

Stampato in data: 29/10/2021

Pagina 2 di 2

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: 21RP04998 del 29/10/2021

Spett.
LAICA S.p.A.
Viale del Lavoro, 10
36046Bartaraino Mossano (VI)

Dati di accettazione
Matrice: Acque di processo
Trasporto: Cliente
Data arrivo: 26/10/2021 Ora arrivo: 12:32
Data accettazione: 26/10/2021

Dati relativi al campione (C)
Descrizione: Acqua del 21/10/2021 - Litro: ?5 - Lotto AA

Dati relativi al campionamento
Campionamento a cura di: Cliente
Luogo: Sede del Cliente

Pagina 1 di 2

chimicambiente

Rapporto di prova n°: 21RP04998 del 29/10/2021

Parametro - Specifiche	U.M.	Risultato Note	LoD	LoQ	Inizio prova Finitura
Durezza totale	mg CaCO3/l	334			
APAT CNR IRSA 2040 B Man 29 2003					
Alcalinità	meq/l	2.0			
APAT CNR IRSA 2010 B Man 29 2003					
P - Punto di equivalenza alla fenolftaleina	meq/l	NQ			
APAT CNR IRSA 2010 B Man 29 2003					
T - Punto di equivalenza all'indicatore misto	meq/l	2.0			
APAT CNR IRSA 2010 B Man 29 2003					
21RP04998/01 Durezza permanente					
Parametro - Specifiche	U.M.	Risultato Note	LoD	LoQ	Inizio prova Finitura
Durezza permanente (dopo ebollizione)	mg CaCO3/l	289			
APAT CNR IRSA 2040 B Man 29 2003					

Questo il campionamento non sia a carico di Chimicambiente S.r.l., quest'ultima declina ogni responsabilità in merito alle informazioni relative al campionamento di quanto fornito dal Cliente/Committente. I risultati della prova si riferiscono esclusivamente al campione così ricevuto. Quando quest'ultimi comprendono misurazioni che richiedono l'applicazione di un'incertezza di misura, questa è disponibile presso il laboratorio. Il dati di accettazione sono di responsabilità del Laboratorio mentre i dati relativi al campione sono contrassegnati con un 'C' e di responsabilità del Cliente/Committente.
Questo il campione finale non idoneo ma il Cliente/Committente sceglieresse di proseguire ugualmente, il laboratorio declina ogni responsabilità sui risultati che potrebbero essere influenzati dallo scostamento.

LEGENDA: U.M. = unità di misura; (meq) = Limite superiore; LoD = Limite inferiore; LoQ = limite di quantificazione, e il limite inferiore di concentrazione sopra al quale è possibile ottenere strumentalmente una misura di tipo quantitativo, in microbiologia il LoQ è di natura teorica; LoQ = limite di rilevabilità, è il limite inferiore di concentrazione sopra al quale è stato rilevato il campione non può essere rilevato, nella analisi qualitative rappresenta la minima concentrazione alla quale è possibile determinare o meno la presenza di un analita; NQ = non quantificabile, indica un valore inferiore al LoQ; "<" e ">" indicano rispettivamente un valore inferiore o superiore al valore riportato; N.A. = non applicabile alla prova; M.I. = Metodo Interno.
(#) Indica una modifica rispetto alla versione precedente del Rapporto di prova.
(M) Indica che la procedura è stata eseguita in subappalto.

I risultati analitici si riferiscono esclusivamente al campione sottoposto a prova.
La riproduzione parziale del presente rapporto di prova non è consentita senza autorizzazione scritta del laboratorio.
I campioni vengono conservati presso il laboratorio per 2 settimane dalla data di fine prova, salvo diverse indicazioni.
La registrazione delle prove effettuate vengono conservate dal laboratorio per 5 anni dall'emissione del rapporto di prova.
SE NON DIVERSAMENTE SPECIFICATO i risultati del presente rapporto di prova non risultano conformi per i lotti di riciquero (R) in questo i valori del riciquero rientrano nella tolleranza indicata nel metodo di prova. le sommatorie sono calcolate mediante il criterio del lower bound (LB) e il verbale di campionamento viene identificato se arrivato con il medesimo codice di accettazione del campione oppure con il relativo numero d'ordine.

Direttore Tecnico
Dr. Giovanni Misantonna
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

Fine Rapporto di Prova

Pagina 2 di 2

Written by: Franco Uva R&D
Checked by:
Reviewed by:
Approved by:

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

chimicambiente

Rapporto di prova n°: **21RP04999 del 29/10/2021**

Spett.
LAICA S.p.A.
Via del Lavoro, 10
36040Bartolomeo Mussano (VI)

Dati di accettazione
Matrice: **Acque di processo**
Trasporto: **Cliente**
Data arrivo: **26/10/2021** Ora arrivo: **12:52**
Data accettazione: **26/10/2021**

Dati relativi al campione (C)

Descrizione: **Acqua del 21/10/2021 - Litro: 75 - Lotto BB**

Dati relativi al campionamento

Campionamento a cura di: **Cliente**
Luogo: **Sede del Cliente**

CHIMICAMBIENTE SRL - Sede legale ed operativa: Via Leonardo da Vinci, 3 - 35043 ESTE (PD)
Tel. 0429 601002 - C.F./P.IVA, n°Iscr. Reg. Imp. 03859520285 R.E.A. CO2256 - ISO: SRQ2CH1
www.chimicambiente.net - e-mail: info@chimicambiente.net - pec: chimicambiente@pec.it

Stampato in data: 29/10/2021

Pagina 1 di 2

chimicambiente

Rapporto di prova n°: **21RP04999 del 29/10/2021**

Parametro - Specifiche	U.M.	Risultato Note	LoQ	LoD	Inizio Prova / Fine Prova
Durezza totale	mg/l CaCO3	**325**	4,5		27/10/21 / 27/10/21
APAT CNR IRSA 2040 B Man 29 2003					
Alcalinità	mg/l	**1,7**	4,1		26/10/21 / 26/10/21
APAT CNR IRSA 2010 B Man 29 2003					
1° Punto di equivalenza alla fenolftaleina	mg/l	**0,1**	4,1		
APAT CNR IRSA 2010 B Man 29 2003					
T. Punto di equivalenza all'indicatore misto	mg/l	**1,7**	4,1		
APAT CNR IRSA 2010 B Man 29 2003					

21RP04999/01 Durezza permanente

Parametro - Specifiche	U.M.	Risultato Note	LoQ	LoD	Inizio Prova / Fine Prova
Durezza permanente (dopo ebollizione)	mg/l CaCO3	**285**	4,5		27/10/21 / 27/10/21
APAT CNR IRSA 2040 B Man 29 2003					

Direttore Tecnico
Dr. Giovanni Mitarlitonna
Chimico
Ordine Interprov. Chimici del Veneto - Padova n° 910 SEZ. A

Fine Rapporto di Prova

CHIMICAMBIENTE SRL - Sede legale ed operativa: Via Leonardo da Vinci, 3 - 35043 ESTE (PD)
Tel. 0429 601002 - C.F./P.IVA, n°Iscr. Reg. Imp. 03859520285 R.E.A. CO2256 - ISO: SRQ2CH1
www.chimicambiente.net - e-mail: info@chimicambiente.net - pec: chimicambiente@pec.it

Stampato in data: 29/10/2021

Pagina 2 di 2

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

3. COMPLIANCES

LAICA®

DECLARATION OF COMPLIANCE

Laica S.p.A.

Viale Del Lavoro, 10- Fraz. Ponte - 36048 Barbarano Mossano – Vicenza – Italia

Declares under its sole responsibility, that:

Category

Filter cartridges POWER WHITE/POWER BLUE/POWER AROMA manufactured by LAICA, all RAW MATERIALS (plastics for injections, carbons and resins for media) and components employed for their mass production comply with below directives and regulations:

- European Regulation 1935/2004/EU relative to materials and articles intended to come into contact with food,
- European Regulation 10/2011/EU relative to plastic materials and articles intended to come into contact with food,
- European Regulation 2023/2006/EU on good manufacturing practice for materials and articles intended to come into contact with food,

Barbarano Mossano, 06/07/2021

Riccardo Dolcetta Capuzzo

Nicolò Zanuso

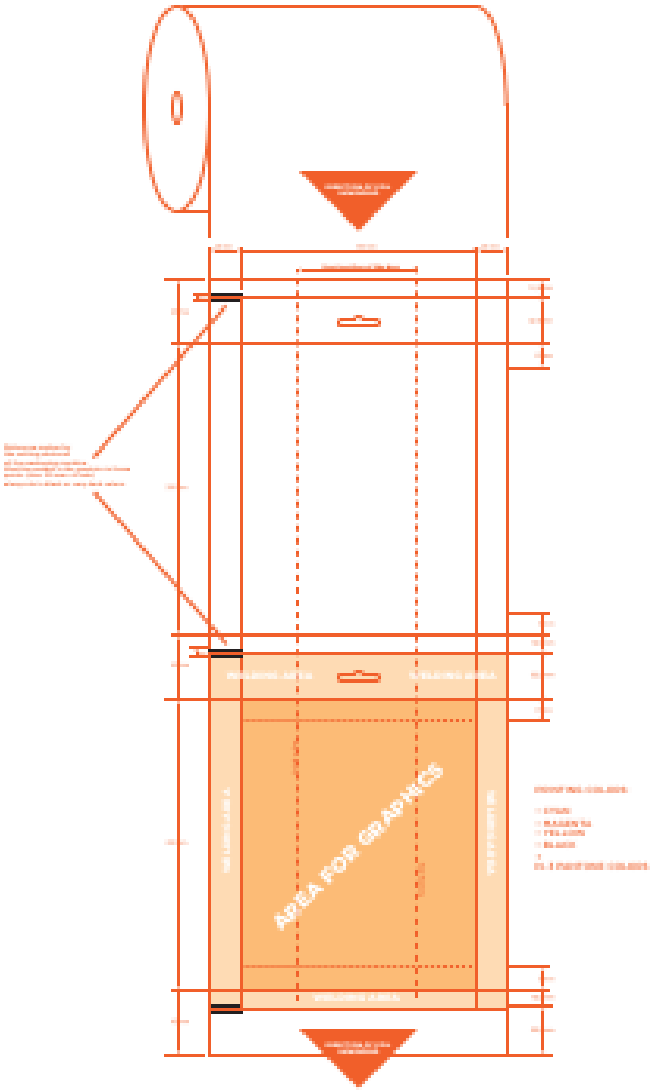
LAICA S.p.A. - Società con socio unico soggetta all'attività di direzione e coordinamento di Strix Group Plc.
Viale del Lavoro, 10 – Fraz. Ponte – 36048 Barbarano Mossano (VI) – Italy
Tel. +39 0444 795314 – 795321 – Fax +39 0444 795324 – e-mail: info@laica.com
Reg. Impr. e P.IVA 00288500242 – Capitale Sociale €1.000.000,00 i.v

MSDS & COSHH

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

4. PACKAGING

FLOW PACK	
DIE CUT DRAWING	
FILM CODE	
MATERIALS	PET12+PE35
DIMENSION OF FLOW PACK	240x80x45
WEIGHT	107 +/- 10%



Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

GIFT BOX
NO

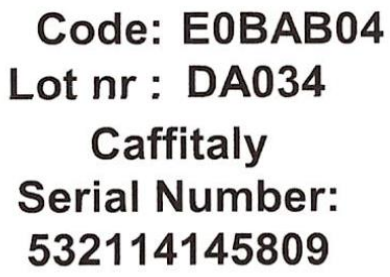
MASTER CARTON	
TIPE CODE OF MATER CARTON	
DIMENSION	390x390x200
N° OF PIECES PER MASTER CARTON	64
GROSS WEIGHT	
NUMBERS OF CARTON PER PALLET	54
NUMBERS OF FILTER PER PALLET	3456

5. TRACEABILITY

5.1 BATCH IDENTIFICATION

HOT PRINTED INTHE TOP OF THE FILTER CASE - PRINTED IN FLOW PACK - PRINTED IN MASTER CARTON LABEL

5.2 UNIVOQUE CODE



FILTER CODE						
BATCH NUMBER						
CAFFITALY						
SERIAL NUMBER						
|MINUTES|YEAR|HOUR|DAY|SEC|MONTH	53	21	14	14	58	09
	14:**53**:58	YEAR 20**21**	**14**:53:58	DAY **14**	14:53:**58**	SPTEMBER

Written by: Franco Uva R&D Checked by: Reviewed by: Approved by:	CONFIDENTIALITY and WARNING NOTICE: this documents contain legally privileged or confidential information. Any dissemination, distribution and copiyng of the contents of this document is strictly forbidden.

LAICA spa					
DOCUMENT CODE	E0BAB04	**EDITION NUMBER**	01	**DATE**	08/11/2021

6. INSTRUCTION MANUALS

TBD

MSDS & COSHH

ASACHIMICI SNC di Carubelli G.& C.
Via N.Sauro, 24
26039 VESCOVATO CR Italy
Tel. +390372830494 Fax. +390372830029
Economic Administrative Index Chamber of commerce (and industry, agriculture and small business) Cremona 115294 - Cremona Register of Companies 6107
VAT No. and Tax Code 00831230198
Date, 01/04/2017 review 04

SAFETY DATA SHEET

PULY CAFF Plus® NSF POWDER/TABLET

1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER
Trade name: PULY CAFF Plus® NSF POWDER/TABLET
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST
Cleaning detergent specifically for espresso and filter coffee brewer
Uses advised against: do not use for purposes other than those indicated
1.3 INFORMATION ON THE SUPPLIER OF THE SAFETY DATA SHEET
ASACHIMICI SNC di Carubelli G.& C. - Via N.Sauro, 24 - 26039 VESCOVATO CR Italy - Tel. +390372830494 Fax. +390372830029 CONTACT DETAILS
e-mail: info@asachimici.com
1.4 EMERGENCY TELEPHONE NUMBER
Poison Control Centre – Ospedale Niguarda - +39(0)2 66101029 - Poison Control Centre –Roma Policlinico Gemelli +39(0)6 3054343

2 HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE
REGULATION (EC) No. 1272/2008 (CLP)
Eye irritation, Cat. 2 - H319 Causes serious eye irritation.
MAIN HARMFUL EFFECTS
The product causes irritation when in contact with eyes
When used in normal environments, according to correct usage conditions, the product does not present specific hazards.
2.2 LABEL ELEMENTS
Label compliant with EC Regulation No. 1272/2008

HAZARD PICTOGRAMS WARNINGS
Attention
HAZARD STATEMENTS
H319 Causes serious eye irritation.
PRECAUTIONS
(P102 Keep out of the reach of children.) (P103 Read label before using.)
P264 Wash skin thoroughly after use.
P280 Wear protective gloves/eye protection/face protection.
P305 + P351 + P338 IN CASE OF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove contact lenses, if it is easy to do. Continue to rinse.
(P101 Where a doctor's visit is required, bring along the container or label.)

2.3 OTHER HAZARDS
No other known hazards
Employers must respect legal conditions in force relative to "risk assessment" to protect the health and safety of employees.
The mixture does not meet PBT/vPvB criteria as per Regulation (EC) 1907/2006, attachment XIII, based upon the information available on components.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

ASACHIMICI SNC di Carubelli G.& C.
Via N.Sauro, 24
26039 VESCOVATO CR Italy
Tel. +390372830494 Fax. +390372830029
Economic Administrative Index Chamber of commerce (and industry, agriculture and small business) Cremona 115294 - Cremona Register of Companies 6107
VAT No. and Tax Code 00831230198
Date, 01/04/2017 review 04

Not applicable

3.2 MIXTURES

This product is a mixture of substances. Substances classified as dangerous are listed below together with their concentration (Range set by RECOMMENDATION EEC 89/542), with their symbols/hazard signals and assigned H phrases.

Substances n. CAS n. EINECS	REACH Reg. No. 1999/45/CE	Content %	Classification UE-CLP CE 1272/2008	Specific limits concentration
Sodium sulphate	n.d.	65-75	n.d.	n.d.
Sodium carbonate 497-19-8 207-838-8	01-2119485491819-xxxx	5-15	Eye Irrit. 2 H319	n.d.
Sodium percarbonate 15630-89-4 239-707-6	01-2119457268830-xxxx	5-15	Acute Tox. 4 H302 Eye dam. 1 H318 Ox. Sol. 3 H272	>= 25% Acute Tox. 4 H302 Eye dam. 1 H318 Ox. Sol. 3 H272 10 -< 25% Eye Irrit. 2 H319
Sodium tripoliphosphate 7758-29-4	01-2119430450540-xxxx	<5	n.d.	n.d.
Sodium alkyl sulphate 68955-19-1 273-257-1	01-2119490225390-xxxx	<1	Skin irrit. 2 H315 Eye dam. 1 H318	n.d.

Chemical composition and/or mixture concentration, intellectual property of Asachimici. The complete H phrase test is documented in section 16.

4 FIRST AID MEASURES

4.1 FIRST AID MEASURES DESCRIPTION

GENERAL MEASURES: where discomfort is experienced, consult a physician. Show the physician the present safety data sheet.
INHALATION: remove the injured person from the danger zone to a well-ventilated room; if any symptoms of discomfort should occur, seek medical advice.
CONTACT WITH SKIN: rinse the skin immediately using plenty of water and change clothing where necessary. If irritation persists or tissue damage occurs, consult a physician.
CONTACT WITH EYES: remove any contact lenses. Rinse immediately using plenty of water and with eyelids open for at least 10 minutes. Where discomfort persists, immediately consult an ophthalmologist.
INGESTION: Never administer anything orally where the victim is not conscious; rinse the mouth; make sure the person drinks plenty of water; consult a physician.

4.2 MAIN SYMPTOMS, BOTH ACUTE AND DELAYED

See section 11.

4.3 INDICATION OF IMMEDIATE NEED FOR MEDICAL ATTENTION AND SPECIFIC TREATMENTS

See section 4.1.

5 FIRE MEASURES

5.1 EXTINGUISHERS

The product itself does not burn. Use water mist extinguishers, fire-fighting foam, powder, sand, Carbon dioxide (CO2).

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

ASACHIMICI SNC di Carubelli G.& C.
Via N.Sauro, 24
26039 VESCOVATO CR Italy
Tel. +390372830494 Fax. +390372830029
Economic Administrative Index Chamber of commerce (and industry, agriculture and small business) Cremona 115294 - Cremona Register of Companies 6107
VAT No. and Tax Code 00831230198
Date, 01/04/2017 review 04

Possible formation of carbon monoxide

5.3 ADVICE FOR FIRE-FIGHTERS

To protect fire-fighters, suitable breathing protection means must be employed along with suitable protective equipment.

6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Intervention personnel must wear suitable personal protective equipment (overalls, gloves, goggles and dust mask). Personnel not trained to deal with emergency interventions must stay away from the area concerned.

6.2 ENVIRONMENTAL PRECAUTIONS

Comply with water protection standards (collect, control, cover). Do not place the product in the following areas: in surface water or drainage systems. In the instance where a large quantity of the product has leaked or caused contamination, the competent authorities must be informed.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Carefully collect the leaked product (better where aspirated) and using plenty of water, clean the affected area. Comply with current standards when disposing the non-reusable product.

6.4 REFERENCE TO OTHER SECTIONS

Where necessary, see sections 8 and 13.

7 HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Comply with precautions overseeing the handling of chemical products. Adequately ventilate areas; where necessary, use equipment which feature ventilation devices to stop powder filling up the air. Keep away from food and drinks. Avoid knocking and incorrect handling of packages which may cause the product to leak. During handling, ensure surroundings are clean and organised. Where powder is present, we recommend using suitable protective means: dust mask, gloves and goggles (see section 8).

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

The product must be stored in areas with alkali-resistant flooring, which are covered, dry, cool and ventilated. Keep the product away from heat sources, central heating (temperature must not exceed 20°C) and it must be shielded from the sun's rays. Keep packages securely closed after use and away from acidic, alkali products, reducing substances or mineral salts (see sections 10 and 14). There will be no decomposition where stored and used as indicated.

7.3 SPECIFIC END USERS

No specific recommendations available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure threshold limit value: as there is no test data available on the component used in terms of professional exposure, we must consider the concentrations of the substances forming part of the preparation (see section 3) in order to assign an estimated value based upon and relative to individual characteristics and toxicological classifications.

Derivate level without DNEL effect

Substances	Workers dermic acute	Workers inhalation long time effects	Consumers dermic acute	Consumers inhalation long time effects	Consumers ingestion long time effects
Sodium carbonate	nd	10 mg/m3	nd	10 mg/m3	nd
Sodium percarbonate	12,8 mg/cm2	5 mg/m3	6,4 mg/cm2	nd	nd
Sodium alkyl sulphate	4060 mg/Kg	285 mg/m3	2440 mg/Kg	85 mg/m3	24 mg/Kg

ASACHIMICI SNC di Carubelli G.& C.
Via N.Sauro, 24
26039 VESCOVATO CR Italy
Tel. +390372830494 Fax. +390372830029
Economic Administrative Index Chamber of commerce (and industry, agriculture and small business) Cremona 115294 - Cremona Register of Companies 6107
VAT No. and Tax Code 00831230198
Date, 01/04/2017 review 04

Sodium alkyl sulphate	4060 mg/Kg	285 mg/m3	2440 mg/Kg	85 mg/m3	24 mg/Kg

Predictable concentration without PNEC effects

Substances	Water	Sea water	Depuration plants
Sodium carbonate	nd	nd	nd
Sodium percarbonate	0,035 mg/l	nd	16,24 mg/l
Sodium alkyl sulphate	0,098 mg/l	0,0098 mg/l	0,15 mg/l

8.2 EXPOSURE CONTROLS
-RESPIRATORY PROTECTION: avoid inhaling powder. Use a dust mask in the presence of powder.
-HAND PROTECTION: use rubber gloves (PVC, etc.).
-EYE PROTECTION: avoid contact with eyes. Use protective, airtight goggles in the presence of powder.
-SKIN PROTECTION: employ clothing which prevents direct contact between the powder and skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES
-APPEARANCE: white powder
-ODOUR: odourless
-pH: (solution 1% in water) 10 ± 0.5
-MELTING POINT/FREEZING POINT: n.d.
-INITIAL BOILING POINT AND BOILING INTERVAL: n.d.
-FLAMMABILITY POINT: n.d.
-EVAPORATION RATE: n.d.
-FLAMMABILITY (SOLIDS, GAS): n.a.
-MAXIMUM/MINIMUM FLAMMABILITY LIMIT OR EXPLOSIVITY: n.a.
-VAPOUR PRESSURE: n.d.
-VAPOUR DENSITY: n.d.
-RELATIVE DENSITY: n.d. (apparent density approx 1.15 g/ml)
-SOLUBILITY: rapidly soluble in water. Approx. 20 g/L at 20°C - N-OCTANOL/WATER PARTITION: n.d.
-AUTOIGNITION TEMPERATURE: n.d.
-DECOMPOSITION TEMPERATURE: n.d.
-VISCOSITY: n.a.
-EXPLOSIVE PROPERTIES: n.a. -OXIDISING PROPERTIES: n.d.
9.2 OTHER INFORMATION
-No data available

10 STABILITY AND REACTIVITY

10.1 REACTIVITY
Avoid releasing the product in the environment and it is good practice to never mix substances and/or chemical preparations.
10.2 CHEMICAL STABILITY
The product is stable under recommended storage and handling conditions (see section 7).
10.3 POSSIBILITY OF HAZARDOUS REACTIONS
The alkaline content of the product reacts with acids (chemical reaction) and with substances which generate acids.
10.4 CONDITIONS TO AVOID
Avoid dust formation, heat sources and humidity.
10.5 INCOMPATIBLE MATERIALS

ASACHIMICI SNC di Carubelli G.& C.
Via N.Sauro, 24
26039 VESCOVATO CR Italy
Tel. +390372830494 Fax. +390372830029
Economic Administrative Index Chamber of commerce (and industry, agriculture and small business) Cremona 115294 - Cremona Register of Companies 6107
VAT No. and Tax Code 00831230198
Date, 01/04/2017 review 04

Avoid contact with humidity, strong acids, thin aluminium.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

The release of toxic vapours resulting from a fire or high temperatures may present risks.

11 TOXICOLOGICAL INFORMATION

As there is no test data available on the component, we must consider the concentrations of the substances forming part of the preparation (see section 3) in order to assess the toxicological effects arising from product exposure.

Substances	LD50 oral	LD50 skin	LC50 inhalation
Sodium carbonate	2800 mg/Kg	nd	2300 mg/m3
Sodium percarbonate	1034 mg/Kg	>2000 mg/Kg	n.d.
Sodium alkyl sulphate	>2000-<=5000 mg/Kg	>2000 mg/Kg	n.d.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

-Acute toxicity, irritation and corrosiveness: according to our experience, the product has a high toxicity level in line with alkaline type products however in standard handling conditions, it presents hazards attributable to products classified as irritating. when in contact with eyes it offsets inflammatory conditions.

-Sensitization:

Substances	Exposition way	Species	Result
Sodium carbonate	skin	Buehler Test cavia	Not sensitizer
Sodium percarbonate	skin	Buehler Test cavia	Not sensitizer
Sodium alkyl sulphate	skin	OECD 406	Not sensitizer

-Toxicity upon repeated doses: n.a. -Carcinogenicity:

Substances	Exposition way	Species	Risult
Sodium alkyl sulphate			Not cancerogenic for humans

-Mutagenicity:

Substances	Exposition way	Species	Risult
Sodium alkyl sulphate			Not mutagenic

-Toxicity upon reproduction:

Substances	Exposition way	Species	Risult
Sodium alkyl sulphate			Not Toxic upon reproduction

12 ECOLOGICAL INFORMATION

12.1 TOXICITY

Use the preparation as per the methods and for the objectives specified. Use according to good working practices, avoiding disposal in the environment. Do not dispose in surface water or drainage systems. Do not dispose in the ground. As there is no ecotoxicology data available on this mixture, we refer to the toxicology information relative to the main substances in the mixture itself, described in section 3.

12.2 PERSISTENCE AND DEGRADABILITY

The surfactants in the product comply with biodegradability criteria established with EC REGULATION (EC) No. 648/2004 relative to detergents.

ASACHIMICI SNC di Carubelli G.& C.
Via N.Sauro, 24
26039 VESCOVATO CR Italy
Tel. +390372830494 Fax. +390372830029
Economic Administrative Index Chamber of commerce (and industry, agriculture and small business) Cremona 115294 - Cremona Register of Companies 6107
VAT No. and Tax Code 00831230198
Date, 01/04/2017 review 04

12.3 POTENTIAL FOR BIOACCUMULATION
N.D.
12.4 MOBILITY IN SOIL N.D.
12.5 RESULTS OF PBT AND vPvB ASSESSMENT
The mixture, based upon the information available does not meet PBT and vPvB criteria.
12.6 OTHER ADVERSE EFFECTS
No adverse effects have been identified.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS
When handling, comply with the protective precautions established (see sections 6, 7, 8).
Recover if possible. Small product quantities may be disposed of subject to suitable dilution in water, in sewage water purification systems, or may be overseen by specialist companies dealing with specialist refuse and/or industrial waste disposal, as authorised by designated authorities. Operate according to local and national regulations. Clear packages before disposing or recycling them in compliance with legislation in force overseeing such.

14 TRANSPORT INFORMATION

Different types of bags or drums may be used for packaging and transportation however they must always be made of polyethylene. Packages must always be correctly sealed to prevent deterioration and compression. During transportation, the correctly loaded packages, must be protected from the sun's rays and heat (keep cool as much as possible). When transporting, take care to protect the packages from the rain and bad weather (keep dry as much as possible). In the case of accidental loss, refer to the precautionary instructions described in section 6.
The product is not considered hazardous merchandise for both national and international transportation via roadways, railway, by sea and by air.

15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS AND LEGISLATION SPECIFIC TO THE MIXTURE
Directive 67/548/EEC (Classification, Packaging, and Labelling of dangerous substances) and subsequent amendments;
Directive 99/45/EC (Classification, Packaging and Labelling of Dangerous Preparations) and subsequent amendments;
Regulation no. 1907/2006/EC (REACH);
Regulation no. 1272/2008/EC (CLP);
Regulation no. 790/2009/EC (amending, for the purposes of adaptation to technical and scientific progress, Regulation ATP no. 1272/2008/EC).
Legislative Decree 81/2008 (Consolidated Law on the protection of health and safety in the workplace) and subsequent amendments and Directive 2009/161/EU;
Regulation 648/2004/EC overseeing detergents and subsequent modifications;
Regulation 453/2010 (EU); standard overseeing the transportation of hazardous merchandise on road/railway:
ADR/RID Agreement.
15.2 CHEMICAL SAFETY ASSESSMENT
A chemical safety assessment has not been completed on the mixture.

16 OTHER INFORMATION

Text of H phrases quoted in section 3 of the sheet for the individual components:
-H272 May cause fire; oxidiser.

ASACHIMICI SNC di Carubelli G.& C.
Via N.Sauro, 24
26039 VESCOVATO CR Italy
Tel. +390372830494 Fax. +390372830029
Economic Administrative Index Chamber of commerce (and industry, agriculture and small business) Cremona 115294 - Cremona Register of Companies 6107
VAT No. and Tax Code 00831230198
Date, 01/04/2017 review 04

-H302 Harmful if swallowed.
-H315 Causes skin irritation.
-H318 Causes serious eye damage.
-H319 Causes serious eye irritation.

It is the responsibility of the user to take all the measures necessary to ensure compliance with local, national and EU standards.
Personnel medical checks: preventive and periodic personnel medical checks are a legal requirement. The data provided is based on our knowledge up to the present day and is not considered to be exhaustive or binding. It is applicable to the product as per and in compliance with specifications. Our Company will not assume any legal responsibility arising from the use of such information or reliance upon the aforementioned. In no cases, will such information excuse the user from complying with all legislative, administrative and regulatory standards governing the product, in addition to health and safety standards in the workplace. Despite the information provided, such information being up-to-date at the time of the latest revision, we suggest users ensure the suitability and completeness of the aforementioned, primarily in relation to the specific use envisaged for the product in question. The application, use and modification of the preparation fall under the exclusive responsibility of the client. Read instructions and labels attached to packages before using.
The information described with this present data sheet complies with that prescribed by standards in force governing the hazardous substances described in section 15.
Owing to the numerous modifications, hence the reason for this revision, individual information which has been added, deleted or modified, has not been highlighted; this present data sheet entirely nullifies and replaces all previous versions.

	Costa Coffee Approved Sanitiser Policy	Document Reference	1.1.13
		Document Owner	Zoe Lambert
		Date Approved	20/09/2024
		Version Number	2
		Approved By	Louise Hickmott

Audience	Area
Global	TECHNICAL SUPPLY CHAIN
Intended Party	Platform
Costa (Including Global Innovation); Coca-Cola Bottler	Costa Self Served

Costa Coffee Approved Sanitiser Policy

Purpose: To support the consistent delivery of high quality and safe vended beverages to consumers.
Responsibility: The Food Business Operator responsible for the vended beverages within the market must use Costa approved sanitisers for the manual cleaning of all Costa Express machines.
Requirements: The manual cleaning process must follow the cleaning frequency and cleaning steps as described in the relevant Machine Operator Manual. Dilution and contact time must be adhered to as per the specific sanitiser instructions.
The following list of sanitisers are approved for use only for use with Costa Express equipment:

Ecolab DrySan Oxy wipes	Sanytol All purpose
Holchem M2 spray	Greenspeed Lacto Des spray
Ecolab Aseptopol 76 spray/aerosol	Dettol All purpose cleaner
Diversey Suma Bac D10 spray	Dettol Disinfection Hygiene Cleaner
Cleenol EV3 spray	Diversey Suma QuickDes D4.12 spray
Diversey Oxivir	Ecolab Sirafan Speed spray
Selgeine Extreme T500 spray	Ecolab P3 Alcodes spray
Ecolab Oasis 146 Multi Quat spray (US use only)	Lion Hygiene (Japan) High Alcohol
Cif Professional (pro formula) spray	Astonish Antibacterial Spray
Ecolab Sink & Surface Cleaner Sanitiser	Dettol Multi-purpose cleaner
Ecolab Kay 5 sanitizer tablets	CiF Multi-purpose spray

To be approved for use, the sanitisers must pass Costa validation test protocols. To request validation, a formal change request must be raised via the Costa X Technical Manager and approved by the relevant change forum process.

REASON FOR CHANGE, CHANGES SINCE LAST VERSION
Updated to include removal of discontinued sanitiser & addition of US sanitiser

COSTA
COFFEE
PROFESSIONAL