

- Business of Andrija Stampar Teaching Institute of Public Health is certified by BUREAU VERITAS CROATIA according to ISO 9001:2015, ISO 14001:2015 i ISO 45001:2018
- The official laboratory according by the Decision of the Ministry of Agriculture, Class: UP/I-322-01/18-01/42, Reg. No: 525-10/0538-20-5 of 20th of January 2020.
- The official laboratory according by the Decision of the Ministry of Health; Class: UP / I-541-02 / 13-01 / 17, Reg: 525-10 / 1308-15-10 dated June 12, 2015.
- The Reference Laboratory for determination of Mycotoxins by the Decision of the Ministry of Agriculture, Class: UP / I-310-26 / 13-01 / 56, Reg. No. 525-10 / 1307-14-7 of 18 March 2014.
- Reference laboratory for pesticides in food of plant origin, for pesticides in fruit and vegetables, cereals, and pesticide testing by single residue methods (SRM); according to the Decision of the Ministry of Agriculture, Class: UP / I-322-01/17-01/120, Ur. No. 525-10/0766-19-16 of January 4, 2019.
- The Reference Center of the Ministry of Health for Food Safety testing; UP / I-510-01 / 15-01 / 31; Reg. No: 534-04-1-2 / 7-16-14 of 14 July 2016.
- The Decision of the Ministry of Agriculture of determining laboratories for Honey Adulteration Analysis, Class: UP / I-322-01 / 14-01 / 1408, Reg. No: 525-10 / 1307-14-2 of 15 July 2014.

ANALYSIS REPORT

For analytical number: 05401 00393/23

Buyer R.B.M. S.p.A.
25075 Nave, Via San Giuseppe 1

Print date: 29.05.2023.

GENERAL INFORMATION

Class: 541-02/23-02/156
Delivery number: 251-758-05401-2/4-23-4

Sample name: **POLYPHOSPHATE DOSER "DP1"/RBM**
Sample type: Pipes and similar products
Delivery time: 04.05.2023. 14:18
Analysis began: 04.05.2023. 14:18 Analysis ended: 29.05.2023. 10:10
Request reason: Safety
Delivery type: Delivered
Delivered R.B.M. S.p.A.
Offer 37/05401/23

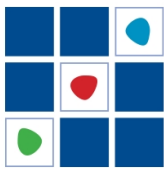
Report delivery address 1. R.B.M. S.p.A., Italija, 25075 Nave, Via San Giuseppe 1

SAMPLE DESCRIPTION

Delivered sample is the original packaging of POLYPHOSPHATE DOSER "DP1"/RBM in cardboard packaging. The dozer consists of a tank made of plastic and a metal fitting, the polyphosphate salt is packed in a separate plastic bag.

Manufacturer: R.B.M. S.p.A., Via San Giuseppe, Italy.

The test was carried out on metal parts and on a part made of plastic mass that come into contact with water for human consumption. The test of polyphosphate salt was not carried out, the requester of the analysis submitted for inspection the test report according to the EN 1208 standard dated of February 10, 2020.



Print date: 29.05.2023.

Analytical number: 05401 00393/23

Buyer: R.B.M. S.p.A., 25075 Nave, Via San Giuseppe 1

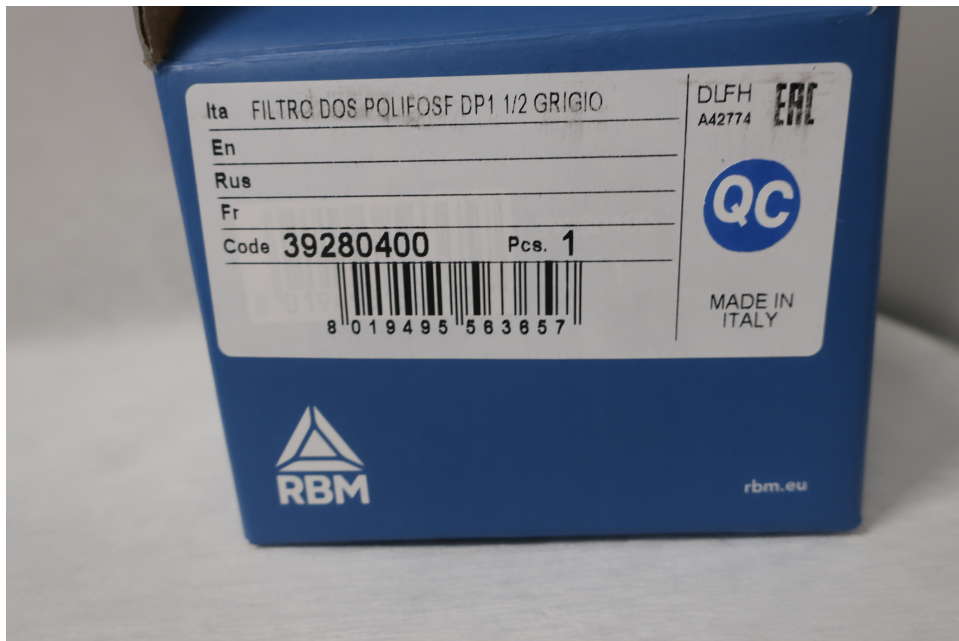
Sample name: POLYPHOSPHATE DOSER "DP1"/RBM

Sample delivery time to the Laboratory: 04.05.2023. 14:18

Prilog: IMG_2717.JPG



Prilog: IMG_2721.JPG



U** expanded measurement uncertainty using a coverage factor k=2

MDK*** Maximum levels according to legal obligations stated in the conformity assessment.

Print date: 29.05.2023.

Buyer: R.B.M. S.p.A., 25075 Nave, Via San Giuseppe 1

Sample name: POLYPHOSPHATE DOSER "DP1"/RBM

Sample delivery time to the Laboratory: 04.05.2023. 14:18

ANALYSIS RESULTS

For analytical number: 05401 00393/23

Laboratory for Chemical Analysis of Food Contact Materials							
Analysis began: 04.05.2023. 14:18				Analysis ended: 29.05.2023. 10:10			
Name of analysis	Method	Technique	Measuring unit	Result	U**	MDK***	Compliance
1. POLYPHOSPHATE DOSER "DP1"/RBM							
Free residual chlorine	HRN EN ISO 7393-2:2018		mg L ⁻¹	0,13	0,01		-
Coliform bacteria	HRN EN ISO 9308-2:2014	MPN	MPN/100 mL	< 1			-
Escherichia coli	HRN EN ISO 9308-2:2014	MPN	MPN/100 mL	< 1			-
Enterococci	HRN EN ISO 7899 -2:2000	membrane filtration	cfu/100 mL	< 1	-		-
Pseudomonas aeruginosa	HRN EN ISO 16266:2008	membrane filtration	cfu/100 mL	< 1	-		-
Lead (Pb)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 2		10	Yes
Cadmium (Cd)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 0,2		5	Yes
Arsenic (As)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 0,5		10	Yes
Mercury (Hg)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 0,1		1	Yes
Chromium (Cr)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		50	Yes
Nickel (Ni)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 4		20	Yes
Manganese (Mn)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		50	Yes
Selenium	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		10	Yes
Barium (Ba)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 10		700	Yes
Zinc (Zn)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	29		3000	Yes
Iron (Fe)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 10		200	Yes
Aluminum (Al)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	37		200	Yes
Antimony (Sb)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		5	Yes
Cobalt (Co)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		1	Yes
Copper	SOP-263-053	AAS; ICP-MS	mg L ⁻¹	0,01		2	Yes
Lithium	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1			-
Boron (B)	SOP-263-053	AAS; ICP-MS	mg L ⁻¹	0,10			-
Lead (Pb)			mgm ⁻² day ⁻¹	< 0,001			-

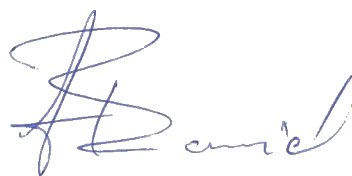
The results are related only to sample analyzed and should not be used in the advertising purposes.

Laboratory for Chemical Analysis of Food Contact Materials							
Analysis began: 04.05.2023. 14:18				Analysis ended: 29.05.2023. 10:10			
Name of analysis	Method	Technique	Measuring unit	Result	U**	MDK***	Compliance
Benzidine (CAS 92-87-5)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4-Chloro-o-toluidine (CAS 95-69-2)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
2-naphthylamine (CAS 91-59-8)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4-Chloro-aniline (CAS 106-47-8)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4,4'-Methylenedianiline (CAS 101-77-9)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
3,3'-dimethoxybenzidine (CAS 119-90-4)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
3,3'-dimethylbenzidine (CAS 119-93-7)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4,4'-methylen-di-o-toluidine (CAS 838-88-0)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
2-Methoxy-5-methylaniline (CAS 120-71-8)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4,4'-diaminodiphenylether (CAS 101-80-4)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4,4'-thiodianiline (CAS 139-65-1)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
o-toluidine (CAS 95-53-4)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
2,4,5-trimethylaniline (CAS 137-17-7)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
o-anisidine (CAS 90-04-0)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
aniline (CAS 62-53-3)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4-aminobiphenyl (CAS 92-67-1)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
Polycyclic aromatic hydrocarbons (PAHs)	SOP-259-053	HPLC	mg m ⁻² d ⁻¹	< 0,0001			Yes
2,4-diaminoanisole (CAS 615-05-4)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4-methyl-m-phenylenediamine (CAS 95-80-7)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
5-nitro-o-toluidine (CAS 99-55-8)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
3,3'-dichlorobenzidine (CAS 91-94-1)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4-aminoazobenzene (CAS 60-09-3)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
4,4-methylene-bis-2-chloroaniline (CAS 101-14-4)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
o-aminoazotoluene (CAS 97-56-3)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
2,6-dimethylanilines (CAS 87-62-7)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
2,4-dimethylaniline (CAS 95-68-1)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
1,4-phenylenediamine (CAS 106-50-3)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
2,6-diaminotoluenes (CAS 823-40-5)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
1,5-diaminonaphthalenes (CAS 2243-62-1)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
1,3-phenylenediamine (CAS 108-45-2)	SOP-293-053 Edition 01	LC-MS/MS	mg kg ⁻¹	< 0,002			Yes
Fenol	SOP-439-053	HPLC	mgm ⁻² day ⁻¹	< 0,1			Yes
Overall migration in distilled water			mg dm ⁻²	< 1			Yes

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Laboratory for Chemical Analysis of Food Contact Materials							
Analysis began: 04.05.2023. 14:18				Analysis ended: 29.05.2023. 10:10			
Name of analysis	Method	Technique	Measuring unit	Result	U**	MDK***	Compliance
Overall migration in extract 3% (w/v) CH ₃ COOH	SOP-82-054		mg dm ⁻²	< 1	-		-
Total Organic Carbon (TOC)	HRN EN 1484:2002		mgm ⁻² day ⁻¹	0,96			Yes
Formaldehyde	SOP-320-054		mg m ⁻² d ⁻¹	< 0,8	-		Yes
Sensory properties	-		-	does match.			Yes
No foreign odors and the impact on the clarity, color and odor of drinking water for three consecutive extractions each per 72 hours.							
2. METAL FITTING							
Lead (Pb)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	8,6		10	Yes
Cadmium (Cd)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 0,2		5	Yes
Arsenic (As)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 0,5		10	Yes
Mercury (Hg)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 0,1		1	Yes
Chromium (Cr)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		50	Yes
Nickel (Ni)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 4		20	Yes
Manganese (Mn)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		50	Yes
Selenium	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		10	Yes
Barium (Ba)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 10		700	Yes
Zinc (Zn)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	250		3000	Yes
Iron (Fe)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 10		200	Yes
Aluminum (Al)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 5		200	Yes
Antimony (Sb)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		5	Yes
Cobalt (Co)	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1		1	Yes
Copper	SOP-263-053	AAS; ICP-MS	mg L ⁻¹	0,02		2	Yes
Lithium	SOP-263-053	AAS; ICP-MS	µg L ⁻¹	< 1			-
Boron (B)	SOP-263-053	AAS; ICP-MS	mg L ⁻¹	0,080			-

Head of Division/Deputy
dr.sc. Lidija Barušić dipl.sanit.ing.




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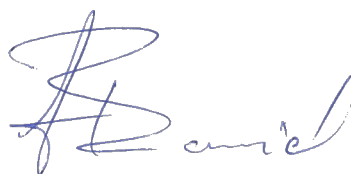
CONFORMITY ASSESSMENT:

The results of tested chemical and microbiological parameters are compliant with Art.37 Regulation on health safety of objects and materials in direct contact with food (O.G. 125/09, O.G. 31/11) connection with art. 4 of Annex I tb.3 and 4 of the Regulation on the parameters of compliance, methods of analysis, monitoring and safety plans for water for human consumption and the manner of keeping a register of legal entities engaged in the public water supply activity (O.G. 125/2017, 39/20) and Commission Regulation (EU) No. 10/2011 on plastic materials and articles intended to come into contact with food, Annex II point 2.

Interpretation:

Based on the obtained results and due to Article 4.of National Regulation of objects of common use (OG 39/13, 47/14,114/18) and Art. 38 of the Water Consumption Act O.G. 30/23 the tested parts of the sample are considered to be safe for health.

Head of Division/Deputy
dr.sc. Lidija Barušić dipl.sanit.ing.



End of analysis report