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Date 03.02.2021

Customer no. 10074398

REPORT 2837910 / 2 - 897514 / 2

The slash after the order and/or analysis number corresponds to the current version of the test report. This version replaces all previous versions of this test report. All former versions of this report should be destroyed.

Order	2837910 / 2
Sample no.	897514 / 2
Sample acceptance	15.01.2021
Date of sampling	21.12.2020
Customer sample description	Copper Sulphate Pentahydrate CuSO4 Manufacturer: CHEMIOLA KIMYA SAN TIC LTD STI Production date: 21.12.2020 Date of sampling: Mon., 21/12/2020 Batch no.: 321-02
Packaging	Kunststoffbeutel
Manufacturing date	21.12.2020

Unit	Result Declaration	Substance Method
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Trace elements / Heavy metals / Halogenides

Substance	Unit	Result Declaration	Substance Method
Copper (Cu)	%	25	OM DIN EN 15621 : 2017-10
Cadmium (Cd)	ppm	<0,20	OM DIN EN 17053 : 2018-03
Lead (Pb)	ppm	2,31	OM DIN EN 17053 : 2018-03
Mercury (Hg)	ppm	<0,02	OM DIN EN 16277 : 2012-09 (mod.)
Arsenic (As)	ppm	<0,50	OM DIN EN 17053 : 2018-03

Polychlorinated Dibenzo(p)-dioxines and -furanes

Substance	Unit	Result Declaration	Substance Method
2,3,7,8-Tetra CDD	ng/kg	<0,040^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,7,8-Penta CDD	ng/kg	<0,040^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,7,8-Hexa CDD	ng/kg	<0,10^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,6,7,8-Hexa CDD	ng/kg	<0,10^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,7,8,9-Hexa CDD	ng/kg	<0,10^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,6,7,8-HpCDD	ng/kg	0,30	OM DIN EN 16215 : 2012-07 (mod.)
Octa CDD	ng/kg	0,76	OM DIN EN 16215 : 2012-07 (mod.)
2,3,7,8-Tetra CDF	ng/kg	0,041	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,7,8-Penta CDF	ng/kg	<0,040^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
2,3,4,7,8-Penta CDF	ng/kg	0,042	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,7,8-Hexa CDF	ng/kg	<0,10^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,6,7,8-Hexa CDF	ng/kg	<0,10^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,7,8,9-Hexa CDF	ng/kg	<0,10^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
2,3,4,6,7,8-Hexa CDF	ng/kg	0,11	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,6,7,8-Hepta CDF	ng/kg	0,52	OM DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,7,8,9-Hepta CDF	ng/kg	<0,20^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
Octa CDF	ng/kg	<0,60^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
TEQ-WHO (upper-bound, Dioxins)	ng/kg	0,18^{xx5)}	OM Calculation WHO 2005

Dioxinlike PCB (dl-PCB)

Substance	Unit	Result Declaration	Substance Method
PCB 77	ng/kg	<6,00^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)
PCB 81	ng/kg	<0,40^{PA)}	OM DIN EN 16215 : 2012-07 (mod.)

The activities reported in this document are accredited according to DIN EN ISO/IEC 17025:2018. Only not accredited activities are identified by the symbol " *) " .

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	Unit	Result Declaration	Substance	Method
PCB 105	ng/kg	<100 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 114	ng/kg	<8,00 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 118	ng/kg	<200 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 123	ng/kg	<4,00 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 126	ng/kg	<0,40 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 156	ng/kg	<100 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 157	ng/kg	<4,00 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 167	ng/kg	<100 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 169	ng/kg	<0,20 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
PCB 189	ng/kg	<4,00 ^{pa)}	OM	DIN EN 16215 : 2012-07 (mod.)
TEQ-WHO (upper-bound, dl PCB)	ng/kg	0,06^{xx5)}	OM	Calculation WHO 2005
TEQ-WHO total (upper-bound, Dioxins + dl PCB)	ng/kg	0,24^{xx5)}	OM	Calculation WHO 2005

xx5) For each single result below the LOQ, the LOQ was used for the calculation.

pa) The detection and quantification limit had been increased because for this analysis matrix a smaller sample volume had to be used.

Explanation: The symbol "<" or n.d. in the result column means, the substance concerned is not quantifiable at the limit of quantification shown opposite.

Parameter-specific measurement uncertainties and information regarding the method of calculation will be provided upon request if the reported results are above the parameter-specific limit of quantification.

Explanation: OM = on original matter; DM = on dry matter base

Start of testing: 15.01.2021

End of testing: 03.02.2021 (extension after add. ordering and/or plausibility check)

The results are related only to the samples tested. In cases where the laboratory has not been responsible for sampling, the reported results apply to the samples as received. Duplication of this document or of parts of it requires the authorization from laboratory. In accordance our agreement in writing in the order confirmation, the results in this test report are in a simplified form in the context of DIN EN ISO/IEC 17025:2018, paragraph 7.8.1.3.



AGROLAB LUFA Herr Dr. Hubert Wehage, Tel. 0431/1228-220
Customer Relations Management feed

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