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INMATRADE AG
Werftestrasse 4
Schweiz
6005 Lucerne
SCHWEIZ

Date 16.07.2020
Customer no. 10074398

REPORT 2749092 - 738250

Order	**2749092**
Sample no.	**738250**
Sample acceptance	**08.07.2020**
Date of sampling	**02.07.2020**
Customer sample description	**Copper Sulphate Pentahydrate CuSO4** **Manufacturer: CHEMIOLA KIMYA SAN TIC LTD STI** **Date of sampling: 02.07.2020** **Production date: 02.07.2020** **Lot: 157-02**
Packaging	**Kunststoffbeutel**
Batch/Charge/Lot	**157-02**
Manufacturing date	**02.07.2020**

	Unit	Result	Declaration		Substance	Method
Trace elements / Heavy metals / Halogenides						
Copper (Cu)	%	**25,9**			OM	DIN EN 15621 : 2017-10
Nickel (Ni)	ppm	**6,99**			OM	DIN EN 17053 : 2018-03 (mod.)
Cobalt (Co)	ppm	**1,52**			OM	DIN EN 17053 : 2018-03
Iron (Fe)	ppm	**383**			OM	DIN EN 15621 : 2017-10
Chromium (Cr)	ppm	**6,86**			OM	DIN EN 17053 : 2018-03 (mod.)
Antimony	ppm	**<0,50**			OM	DIN EN 17053 : 2018-03
Cadmium (Cd)	ppm	**<0,20**			OM	DIN EN 17053 : 2018-03
Lead (Pb)	ppm	**6,41**			OM	DIN EN 17053 : 2018-03
Mercury (Hg)	mg/kg	**<0,05** *m)*			OM	DIN EN 16277 : 2012-09 (mod.)
Arsenic (As)	ppm	**<0,50**			OM	DIN EN 17053 : 2018-03
Polychlorinated Dibenzo(p)-dioxines and -furanes						
2,3,7,8-Tetra CDD	ng/kg	**<0,020**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,7,8-Penta CDD	ng/kg	**0,032**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,7,8-Hexa CDD	ng/kg	**<0,050**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,6,7,8-Hexa CDD	ng/kg	**0,095**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,7,8,9-Hexa CDD	ng/kg	**0,069**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,6,7,8-HpCDD	ng/kg	**0,78**			OM	DIN EN 16215 : 2012-07 (mod.)
Octa CDD	ng/kg	**1,2**			OM	DIN EN 16215 : 2012-07 (mod.)
2,3,7,8-Tetra CDF	ng/kg	**0,056**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,7,8-Penta CDF	ng/kg	**0,11**			OM	DIN EN 16215 : 2012-07 (mod.)
2,3,4,7,8-Penta CDF	ng/kg	**0,204**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,7,8-Hexa CDF	ng/kg	**0,28**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,6,7,8-Hexa CDF	ng/kg	**0,28**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,7,8,9-Hexa CDF	ng/kg	**0,095**			OM	DIN EN 16215 : 2012-07 (mod.)
2,3,4,6,7,8-Hexa CDF	ng/kg	**0,37**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,6,7,8-Hepta CDF	ng/kg	**1,5**			OM	DIN EN 16215 : 2012-07 (mod.)
1,2,3,4,7,8,9-Hepta CDF	ng/kg	**<0,20** *wf)*			OM	DIN EN 16215 : 2012-07 (mod.)
Octa CDF	ng/kg	**0,62**			OM	DIN EN 16215 : 2012-07 (mod.)

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	Unit	Result	Declaration		Substance	Method
TEQ-WHO (upper-bound, Dioxins)	ng/kg	**0,27**[xx5)]			OM	Calculation WHO 2005
Dioxinlike PCB (dl-PCB)						
PCB 77	ng/kg	**<3,00**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 81	ng/kg	**<0,20**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 105	ng/kg	**<50,0**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 114	ng/kg	**<4,00**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 118	ng/kg	**<100**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 123	ng/kg	**<2,0**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 126	ng/kg	**<0,20**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 156	ng/kg	**<10,0**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 157	ng/kg	**<2,0**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 167	ng/kg	**<5,00**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 169	ng/kg	**<0,10**			OM	DIN EN 16215 : 2012-07 (mod.)
PCB 189	ng/kg	**<2,0**			OM	DIN EN 16215 : 2012-07 (mod.)
TEQ-WHO (upper-bound, dl PCB)	ng/kg	**0,03**[xx5)]			OM	Calculation WHO 2005
TEQ-WHO total (upper-bound, Dioxins + dl PCB)	ng/kg	**0,30**[xx5)]			OM	Calculation WHO 2005

xx5) For each single result below the LOQ, the LOQ was used for the calculation.
m) Due to the disturbing influence of the sample matrix, the limit of detection resp. limit of quantitation was increased.
wf) In the present sample the recovery of one or more internal standards is < 50% but > 10%. Consequently a higher measurement uncertainty is expected.
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: 08.07.2020
End of testing: 16.07.2020

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

7/16/20 10:55 AM AG Kiel
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Geschäftsführer
Dr. Paul Wimmer
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