



**Commodities International
Shipping and Survey**



CISS Group PTE. LTD.

10, Anson Road, #29-05 A, International Plaza, Singapore, 079903.

e-mail: inspection@ciiss-group.com

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CERTIFICATE No.: UA01218

ORIGINAL

CERTIFICATE OF ANALYSIS

In pursuance of an order received from our principal, requesting us to carry out inspection we hereby confirm as follows:

Description of goods: **UKRAINIAN CRUDE SUNFLOWERSEED OIL**

Quantity: **2500+/- 10% MT**

RESULTS OF QUALITY INSPECTION

The following results of analysis have been obtained:

No	Parameter	Method	Result
1	Benz(a)anthracene, µg/kg (ppb)	ISO 15753	1,9
2	Chrysene, µg/kg (ppb)	ISO 15753	2,4
3	Benzo(b)fluoranthene, µg/kg (ppb)	ISO 15753	2,5
4	Benzo(a)pyrene, µg/kg (ppb)	ISO 15753	1,9
5	Total polycyclic aromatic hydrocarbons content (Sum of Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene), µg/kg (ppb)	ISO 15753	8,7





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No	Test Description	Method	LOQ*	Units	Results
1	Acetamidrid	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
2	Aldrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
3	Amitraz	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
4	Acephate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
5	Azinphos-methyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
6	Acetochlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
7	Alachlor	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
8	Atrazine	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
9	Azoxystrobin	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
10	Anthraquinone	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
11	Bifenthrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
12	Boscalid (Nicobifen)	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
13	Biphenyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
14	Bromopropylate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
15	Captafol	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
16	Carbaryl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
17	Carbofuran	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
18	Carboxin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
19	Chlordane	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
20	Chlorothalonil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
21	Chlorfenvinphos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
22	Chlorpyrifos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
23	Chlorpyrifos-methyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
24	Cyfluthrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
25	Cyhalothrin-Lambda	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
26	Cypermethrin	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
27	Cyproconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
28	Cyprodinil	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
29	DDT	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
30	DDD	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
31	DDE	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
32	Dimethoate	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
33	Deltamethrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
34	Diazinon	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
35	Dichlorvos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
36	Dieldrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
37	Difenoconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
38	Disulfoton	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
39	Endosulfan	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
40	Endosulfan alfa	EN 1528:1996	0,050	mg/kg	ND, less than 0,050





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41	Endosulfan beta	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
42	Endosulfan sulfate	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
43	Endrin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
44	Ethion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
45	Ethoxyquin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
46	Famaxodone	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
47	Fenitrothion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
48	Fenthion	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
49	Fipronil	EN 1528:1996	0,005	mg/kg	ND, less than 0,005
50	Fenvalerate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
51	Fludioxonil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
52	Heptachlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
53	Heptachlor epoxide	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
54	Haloxypomethyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
55	Haloxypop-p-methyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
56	Hexachlorobenzene (HCB)	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
57	HCH alfa isomer	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
58	HCH beta isomer	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
59	HCH gamma isomer (Lindane)	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
60	Imazalil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
61	Iprodione	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
62	Isoprothiolane	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
63	Linuron	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
64	Malathion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
65	Metalaxyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
66	Methamidophos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
67	Methidathion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
68	Methoxychlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
69	Monocrotophos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
70	Metazachlor	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
71	Mepiquat	EN 15662:2018	0,500	mg/kg	ND, less than 0,500
72	Methomyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
73	Naled	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
74	Nitrofen	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
75	Omethoate	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
76	Oxadixyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
77	Ortho-phenyl phenol	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
77	Phorate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
79	Parathion-methyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020





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No	Test Description	Method	LOQ*	Units	Results
80	Pendimethalin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
81	Permethrin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
82	Pirimiphos-methyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
83	Prochloraz	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
84	Procymidone	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
85	Propiconazole	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
86	Phosphamidone	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
87	Simazine	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
88	Tetramethrin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
89	Tebuconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
90	Thiamethoxam	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
91	Trifloxystrobin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
92	Trichlorfon	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
93	Trifluralin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
94	Terbufos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
95	Vinclozolin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020

No	Test Description	Method	Units	Results
1	Sum of dioxins (WHO-PCDD/Fs-TEQ)	EN 16215:2020	pg/g fat	<0,75
2	Sum of dioxins and dioxin-like PCBs (WHO-PCDD/Fs-PCB-TEQ)	EN 16215:2020	pg/g fat	<1,25
3	Sum of PCBs non-dioxin-like	EN 16215:2020	ng/g fat	<40
4	2,3,7,8-TCDD	EN 16215:2020	pg/g fat	<0,04
5	1,2,3,7,8-PeCDD	EN 16215:2020	pg/g fat	<0,04
6	1,2,3,4,7,8-HxCDD	EN 16215:2020	pg/g fat	<0,01
7	1,2,3,6,7,8-HxCDD	EN 16215:2020	pg/g fat	<0,01
8	1,2,3,7,8,9-HxCDD	EN 16215:2020	pg/g fat	<0,01
9	1,2,3,4,6,7,8-HpCDD	EN 16215:2020	pg/g fat	<0,001
10	OCDD	EN 16215:2020	pg/g fat	<0,00006
11	2,3,7,8-TCDF	EN 16215:2020	pg/g fat	<0,004
12	1,2,3,7,8-PeCDF	EN 16215:2020	pg/g fat	<0,0012
13	2,3,4,7,8-PeCDF	EN 16215:2020	pg/g fat	<0,012
14	1,2,3,4,7,8-HxCDF	EN 16215:2020	pg/g fat	<0,01
15	1,2,3,6,7,8-HxCDF	EN 16215:2020	pg/g fat	<0,01
16	2,3,4,6,7,8-HxCDF	EN 16215:2020	pg/g fat	<0,01
17	1,2,3,7,8,9-HxCDF	EN 16215:2020	pg/g fat	<0,01
18	1,2,3,4,6,7,8-HpCDF	EN 16215:2020	pg/g fat	<0,001
19	1,2,3,4,7,8,9-HpCDF	EN 16215:2020	pg/g fat	<0,001





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No	Test Description	Method	Units	Results
20	OCDF	EN 16215:2020	pg/g fat	<0,00006
21	dioxin-like PCB 77	EN 16215:2020	pg/g fat	0,0002
22	dioxin-like PCB 81	EN 16215:2020	pg/g fat	0,0002
23	dioxin-like PCB 126	EN 16215:2020	pg/g fat	<0,05
24	dioxin-like PCB 169	EN 16215:2020	pg/g fat	<0,015
25	dioxin-like PCB 105	EN 16215:2020	pg/g fat	0,001
26	dioxin-like PCB 114	EN 16215:2020	pg/g fat	<0,0003
27	dioxin-like PCB 118	EN 16215:2020	pg/g fat	0,003
28	dioxin-like PCB 123	EN 16215:2020	pg/g fat	<0,0003
29	dioxin-like PCB 156	EN 16215:2020	pg/g fat	<0,0003
30	dioxin-like PCB 157	EN 16215:2020	pg/g fat	<0,0003
31	dioxin-like PCB 167	EN 16215:2020	pg/g fat	0,0006
32	dioxin-like PCB 189	EN 16215:2020	pg/g fat	<0,0003
33	non-dioxin-like PCB 28	EN 16215:2020	ng/g fat	0,127
34	non-dioxin-like PCB 52	EN 16215:2020	ng/g fat	<0,100
35	non-dioxin-like PCB 101	EN 16215:2020	ng/g fat	0,127
36	non-dioxin-like PCB 138	EN 16215:2020	ng/g fat	<0,100
37	non-dioxin-like PCB 153	EN 16215:2020	ng/g fat	<0,100
38	non-dioxin-like PCB 180	EN 16215:2020	ng/g fat	<0,100
39	TEQ (WHO) for PCDD/Fs including LOQ for non-quantified congener	EN 16215:2020	pg/g fat	0,170
40	TEQ (WHO) for dioxin-like PCBs including LOQ for non-quantified congener	EN 16215:2020	pg/g fat	0,072
41	TEQ (WHO) for PCDD/Fs + dioxin- like PCBs including LOQ for non- quantified congener	EN 16215:2020	pg/g fat	0,242
42	Non-dioxin-like PCBs	EN 16215:2020	ng/g fat	0,654

Remarks:

*LOQ — limit of quantification.

The oil is homogeneous, of good, sound and merchantable quality.

DATED: 7th OF FEBRUARY, 2022

For and on behalf of CISS GROUP Ukraine LLC

Registered Superintendent and Surveyor Member of FOSFA

