



# Certificate

MPS-ECAS awards this certificate in accordance with the certification standard MPS-ABC version 15, to:

**Klaver Flowers PLC  
Gurde Shola, Tsbg Building Office 309  
12649 ADDIS ABABA  
Ethiopia  
MPS-number: 804178**

Applicable to environmental clusters:  
LIMONIUM; GYPSOPHILA

Validity: **3-9-2023 valid up to and including 5-11-2023**  
Total points: **73,6**  
Qualification: **A**

Kind regards,  
MPS-ECAS

Signature:

Date of issue:  
3-9-2023

Drs. R. Landsmeer, Manager Operations

*N.B.: This certificate is only valid for the period specified above.*

P.O. Box 114  
2678 ZJ De Lier  
The Netherlands

# QUALIFICATION AND PERIOD GRAPHS

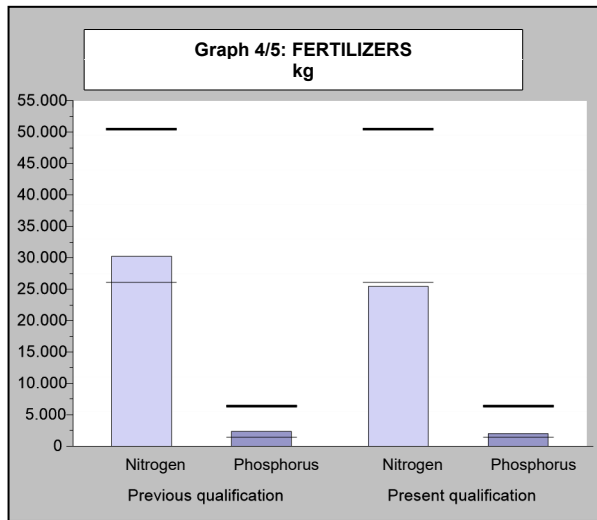
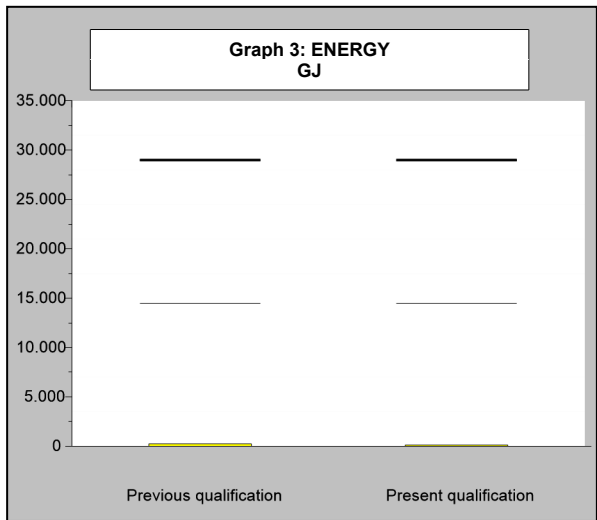
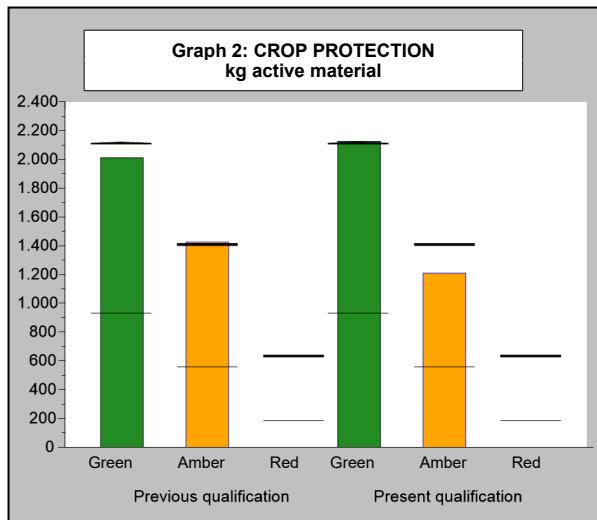
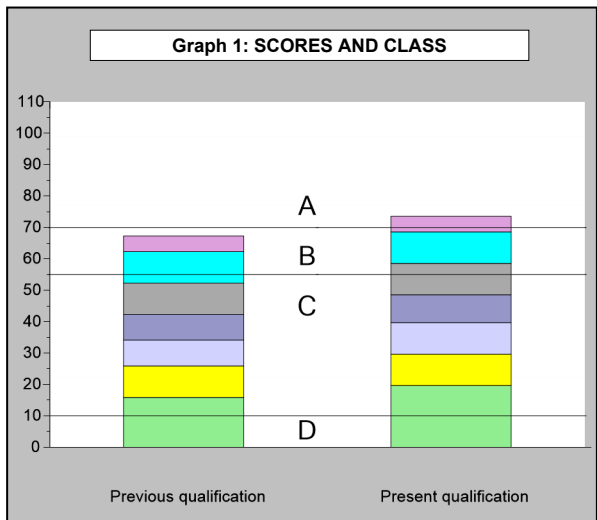
MPS company number: **804178/01**  
 Company name: Klaver Flowers PLC (total)

Valid: Period 8-2022 until Period 7-2023  
 Version: 3-9-2023

**Table 1: DATA QUALIFICATIONS**

SUBJECT	Your Company standard		Your use	Your points	max. points	A+ standard	A+ score	Obtained
	Lower	Upper limit						
Crop protection	Green	933-2113,5 kg	2125,3	0	15			
	Amber	559,8-1409 kg	1210,2	4,7	20			
	Red	186,6-634,1 kg	0	15	15			
total				19,7	50	85 %	39,3 %	no
Energy total		14500-29000 GJ	129,4	10	10	75 %	100 %	yes
Fertilizers	Nitrogen	26100-50500 kg	25457,7	10	10			
	Phosphorus	1470-6400 kg	2018	8,9	10			
total				18,9	20	75 %	94,4 %	yes
Waste		0-130	130	10	10			
Water		0-130	130	10	10			
Certified parental material				5	10			
Total score (points)				73,6	110	90	73,6	no
COMPANY QUALIFICATION				A				

**COMPANY USAGE PER 13 PERIODS**  
 <-----> = Upper limit    <.....> = Lower limit

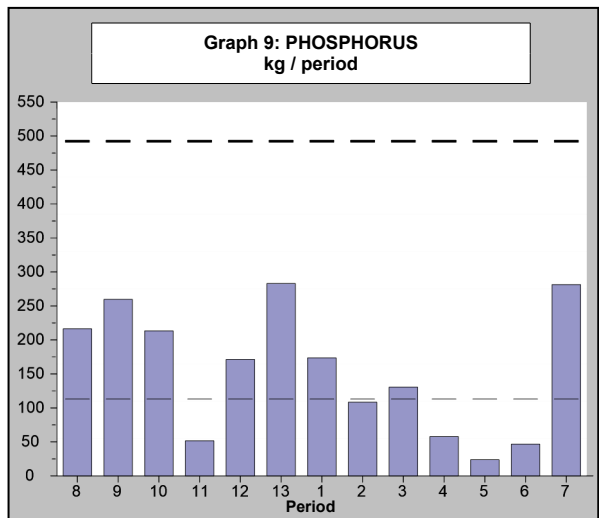
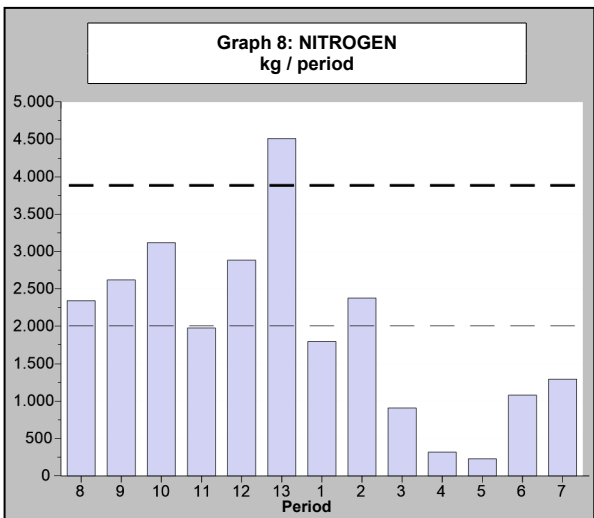
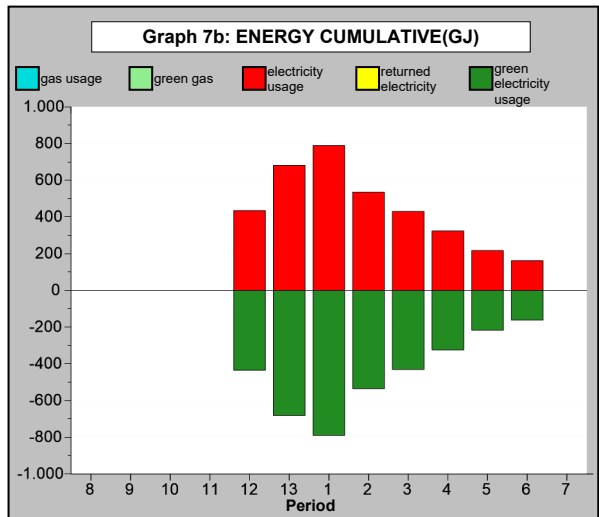
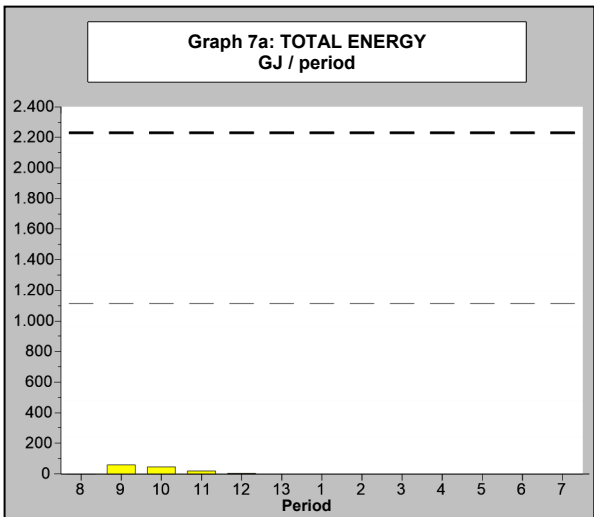
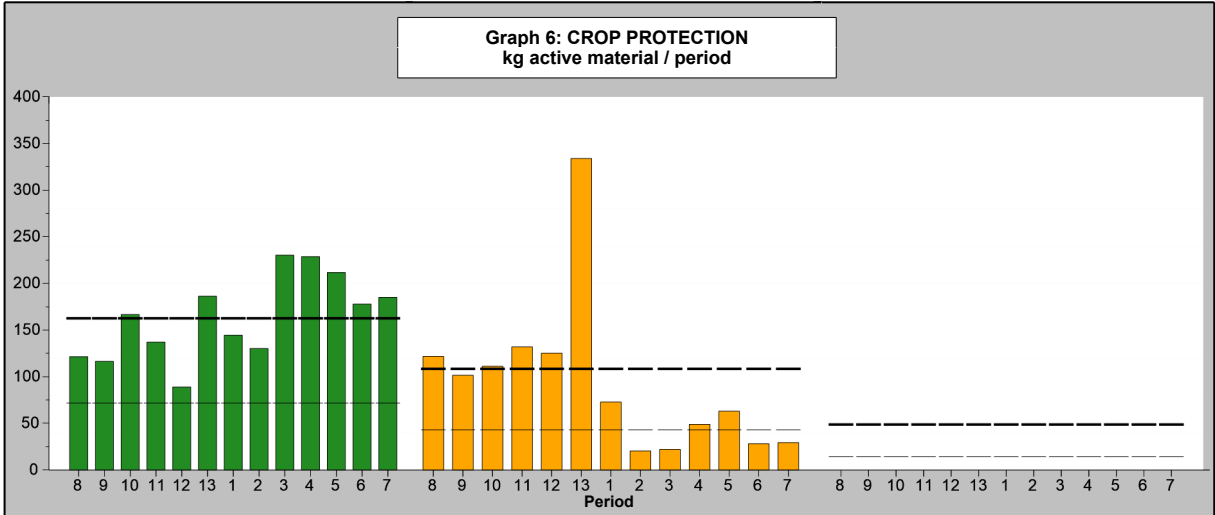


# QUALIFICATION AND PERIOD GRAPHS

MPS company number: **804178/01**  
 Company name: Klaver Flowers PLC (total)

Valid: Period 8-2022 until Period 7-2023  
 Version: 3-9-2023

<-----> = Upperlimit <-----> = Lowerlimit



# MPS-Overview Composition of Qualification

MPS company number: **804178/01**  
 Company name: Klaver Flowers PLC (total)

Valid: Period 8-2022 until Period 7-2023  
 Version: 3-9-2023

## Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	580000 m2		
Area certified parental material MPS-ABC	0 m2	0	10
Area certified parental material GLOBALGAP	580000 m2	5	5
Total points for Certified parental material		5	10

1) Total means: the total area covered and uncovered cultivation and the second crop layer. Not included is the uncultivated area.

## Overview Environmental zones

Period	8	9	10	11	12	13	1	2	3	4	5	6	7
Environmental	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3

## Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Agrixyl 407SL	●	metalaxyl		39,205	
Amicop 50 WP	●	mono- and di- potassium salts of copper oxychloride	224,031	337,601	
Amidil 68 WG	●	mancozeb	53,731		
Amisil	○	metalaxyl-m		3,358	
Amistar 250 SC	○	heptamethyltrisiloxane			
Atmos 200 SC	●	azoxystrobin		32,566	
Attracker	○	cyazofamid	4,000		
Avirmec 1.8 EC	○	sugar			
Belt SC 480	●	abamectin		0,008	
Bladbuff	○	flubendiamide	63,395		
Chrysal GVB	○	wetting/sticker agents other			
Chrysal RVB Clear	○	pretreatment			
Chryzoplus Grey 0.8%	●	pretreatment			
CoverMax	○	indolylbutyric acid	0,053		
	○	adjuvant			
	○	siliconen			
Cutter 112 EC	●	acetamiprid	4,038		
	●	emamectin benzoate		3,028	
Danisaraba 20 SC	●	cyflumetofen		0,009	
Delegate 250 WG	●	spinetoram	35,393		
Episode 480 SC	●	spinosad	23,271		
Fast 80 WP	●	fosetyl-aluminium	414,475		
Gladius 10 SC	●	flometoquin		5,784	
Golan (liquid)	●	acetamiprid	6,712		
Goldazim	●	carbendazim		510,571	
Hamlet 250 SC	●	azoxystrobin		51,073	
Hormoril 6	●	indolylbutyric acid	0,053		
Kanemite 150 SC / 15 SC	●	acequinocyl	13,568		
Karate (50 g/l)	●	lambda-cyhalothrin		3,176	
Kumuluf DF	○	sulfur/sulphur			
Matric 50 SC	●	chromafenozide	0,003		
Meltatox 40 EC	●	dodemorph	40,008		
Nimrod 25 EC	●	bupirimate		0,013	
Nissorun 10 EC	●	hexythiazox	2,747		
Nomolt	●	teflubenzuron	5,309		
Paraat	●	dimethomorph	337,493		

# MPS-Overview Composition of Qualification

MPS company number: **804178/01**  
 Company name: Klaver Flowers PLC (total)

Valid: Period 8-2022 until Period 7-2023  
 Version: 3-9-2023

## Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Polar	●	polyoxin	52,713		
Previcur Energy	●	fosetyl-aluminium	128,141		
	●	propamocarb	219,079		
Profit 72 EC	●	profenofos		5,040	
Prove 1.92 EC	●	emamectin benzoate		0,377	
Revus	●	mandipropamid	2,879		
Rhizopon AA Powder 1 %	●	indolybutyric acid	0,030		
Rizolex 50 WP	●	tolclofos-methyl		1,237	
Saf-T-Side 800EL	●	paraffin oil		148,479	
Sportak	●	prochloraz		64,890	
T.O.G. L-101	○	6-benzylaminopurine (vbh)			
T.O.G.-3	●	8-hydroxyquinoline	1,750		
	●	quaternary ammonium compound	2,000		
	●	thiabendazole		3,750	
T.O.G.-6	○	sodium dichloroisocyanurate			
T.O.G.-75	○	silver thiosulfate			
Teldor 500 SC	●	fenhexamid	34,179		
Teppeki 50 WG	●	flonicamid	1,759		
Tivag	●	gibberelline zuur a3	431,616		
Trianium-P WG 1%	○	trichoderma harzianum			
Velum SC 500	●	fluopyram	22,900		
<b>Annual company use of active substance</b>			<b>2125,325</b>	<b>1210,162</b>	<b>0</b>

# OVERVIEW RECORDED DATA

MPS company number: **804178/01**

Company name: **Klaver Flowers PLC (total)**

Valid: Period 8-2022 until Period 7-2023

Version: 3-9-2023

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
<b>FORM RECEIVED</b>			yes	yes	yes	yes	yes	yes	yes		
<b>CROP PROTECTION AGENTS</b>											
3851	Agrixyl 407SL	ml	29600	32000	46000	49160	43640	29000	42400	271800	560077
4202	Amicop 50 WP	grams	150			36034	36936	8230	16900	98250	397178
4172	Amidil 68 WG	grams		20000	10200	12300				42500	83954
4133	Amisil	ml									11924
4190	Amistar 250 SC	ml	22119	21802	20328	18300	1000	16020		99569	130265
4419	Atmos 200 SC	ml			6920	5280	4268	1532	2000	20000	20000
3409	Attracker	ml						1490		1490	51490
3285	Avirmec 1.8 EC	ml									444
4156	Belt SC 480	ml	1542	1138	12710	21030	14057	2100		52577	132072
3165	Bladbuff	ml	48400	86000	52700				5600	192700	439260
4424	Chrysal GVB	ml	350750	144000	566000	492000	254000	364000	334000	2504750	4969250
3957	Chrysal RVB Clear	ml									100000
4233	Chryzoplus Grey 0.8%	grams						4500		4500	6650
4480	CoverMax	ml									900
4318	Cutter 112 EC	ml		22207	4616	5235	1071	4000	8529	45658	63092
3367	Danisaraba 20 SC	ml							43	43	43
4089	Delegate 250 WG	grams	20713	17087	2236	2236				42272	141572
4452	Episode 480 SC	ml	4530	6775	5680	3102	100	380	70	20637	48481
4386	Fast 80 WP	grams	19200		61300	90484	60500	95700	68000	395184	518094
4437	Gladius 10 SC	ml	3300		50	1970		170	1000	6490	54570
3198	Golan (liquid)	ml	1311							1311	30508
3023	Goldazim	ml	80000							80000	1021141
3950	Hamlet 250 SC	ml	35915		10547	6000	16680	20560	34836	124538	204290
4376	Hormoril 6	grams			2500				2900	5400	8900
4033	Kanemite 150 SC / 15 SC	ml	10260	17904	22240	6000	5396	6800	150	68750	90450
3071	Karate (50 g/l)	ml	8300	1236		3600	1800	9059	26910	50905	63526
3176	Kumulus DF	grams	43810	226700	184900	282050	416800	289700	276000	1719960	3373300
4198	Matric 50 SC	ml							65	65	65
3073	Meltatox 40 EC	ml	19048	77404	3568					100020	100020
3077	Nimrod 25 EC	ml							50	50	50
3009	Nissorun 10 EC	ml		6912	6160	3248	880	270		17470	27470
3249	Nomolt	ml							35393	35393	35393
3241	Paraat	grams	19280	50080	68096	75720	132620	98530	77040	521366	674986
3083	Polar	grams	13902	5849	4970	1926	1650	700	150	29147	105425
3245	Previcur Energy	ml	66214	4080	75972	34194	26150	3910	29576	240096	413357
3987	Profit 72 EC	ml									7000
3382	Prove 1.92 EC	ml							19650	19650	19650

# OVERVIEW RECORDED DATA (Continued)

MPS company number: **804178/01**

Valid: Period 8-2022 until Period 7-2023

Company name: Klaver Flowers PLC (total)

Version: 3-9-2023

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
<b>CROP PROTECTION AGENTS (Continued)</b>											
3348	Revus	ml			1050	5800		3000	2506	12356	12356
4043	Rhizopon AA Powder 1 %	grams			250	250			2500	3000	3000
3183	Rizolex 50 WP	grams									2474
4002	Saf-T-Side 800EL	ml	14025		3000					17025	185599
4019	Sportak	ml	9000	24000	18000	17000	53510	20460	2230	144200	144200
4517	T.O.G. L-101	ml							5000	5000	5000
4139	T.O.G.-3	ml									50000
3215	T.O.G.-6	grams	15000				15000		15000	45000	90185
4132	T.O.G.-75	ml	41000	35000	85000	110000	95000	100000	105050	571050	1207050
3185	Teldor 500 SC	ml			370			3468	300	4138	68358
3378	Teppeki 50 WG	grams	1440	1440	340					3220	3518
3332	Tivag	ml	670600	717800	871350	978050	1195400	587000	1078000	6098200	10790405
4316	Triamum-P WG 1%	grams			500					500	23110
4027	Velum SC 500	ml			8000	12000	800	16000		36800	45800
<b>WATER</b>											
21	Total irrigation	m3	43754	37539	19827	7048	12349	4365	18343	143225	271909
<b>ENERGY</b>											
4	Electricity from the grid (Total)	kWh	87720	59520	47880	36000	24120	18000		273240	397320
54	Diesel oil/fuel	litres									3642
6	Green electricity from the grid	kWh	87720	59520	47880	36000	24120	18000		273240	397320
<b>FERTILIZERS</b>											
572	Ammonium Sulphate (21%)	kg	225	150	150	75	38	76	588	1302	3152
503	Calcium nitrate (nitrate of Lime) 15.5+0+0	kg	4600	2300	2300		566	2882	4377	17025	81525
506	Copper sulphate	kg	45	22,5	22,5	11,25	4,56	9,04	20,7	135,55	484,3
559	EDDHA chelated Iron 4%Fe	kg	30	15	30		4,2	6,8	9	95	485
734	Fe Chelate 3% DTPA	kg				170				170	170
556	Iron DTPA 6%Fe	litres	195							195	2040
725	Magnesium Nitrate (MagNit) 11+0+0 (+16%MgO) Agril	kg						65		65	65
521	Magnesium sulphate	kg		190	380	190	76	1089	514	2439	16314
599	Magnisal 11+0+0 (+16MgO)	kg	570	190	380	190				1330	5765
513	Manganese sulphate	kg	60	30	30	15	10,12	20,08	4,8	170	1405

# OVERVIEW RECORDED DATA (Continued)

MPS company number: **804178/01**

Valid: Period 8-2022 until Period 7-2023

Company name: Klaver Flowers PLC (total)

Version: 3-9-2023

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal	Year total
------	-------------	------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	----------	------------

## FERTILIZERS (Continued)

529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	570	380	380	190	76	152	901	2649	5854
551	Nitric Acid 68%	litres	2200	7750	550	421,2	226	678	477	12302,2	27427,2
515	Potassium nitrate 13+0+45	kg	560		840	560	76	1060	1009	4105	7740
626	Potassium Phosphite 0+30+20	litres	120	40	160	40	19	34	227	640	2500
517	Potassium Sulphate	kg	570	380	760	190	106	177	591	2774	10974
674	Sodium Molybdate (HSI)	kg	12	6	6	3	1,56	3,04	4,5	36,1	183,1
537	Urea 46%	kg	735	390	435	195	136	669	300	2860	7910
501	Zinc sulphate	litres	9	4,5	6,8	2,25	3,06	6,04	9	40,65	144,9

## ENVIRONMENTAL CLUSTERS

Outdoor crops											
2118	LIMONIUM	m2	40000	40000	40000	40000	40000	40000	40000		
2125	GYPSOPHILA	m2	540000	540000	540000	540000	540000	540000	540000		
Subtotal			580000	580000	580000	580000	580000	580000	580000		
Certified parental material											
664	GLOBALGAP certif. parental mat.	m2	580000	580000	580000	580000	580000	580000	580000		

## GENERAL INFORMATION FORM

### MPS-Mind

#### Surface water

3900 What is the minimum distance of this location to the nearest surface water? > 2500 metres / > 8200 feet

#### Cover

3910 Does the surface of protected cultivation exceed 95% of this location? no

3901 What is the percentage of protected cultivation for this location (protected surface/total recorded surface for location)? 0 - 25% covered crops

3909 When a plot used for outdoor crops is close to surface water, is the plot separated from the water by a wind-break or a crop free zone of at least three metres yes

#### Slope

3902 What is the maximum slope of a plot on this location? 3 - 10%

#### Leaching to groundwater

3903 Do you grow more than 95% of your crops in a closed (recirculation) system, with less than 3% loss of drainwater? No

3904 What is the minimum depth of the groundwater on all your plot(s)? >= 15 metres / >= 49,2 feet



## OVERVIEW RECORDED DATA (Continued)

MPS company number: 804178/01

Company name: Klaver Flowers PLC (total)

Valid: Period 8-2022 until Period 7-2023

Version: 3-9-2023

### GENERAL INFORMATION FORM

#### MPS-Mind

3905	What is the lowest percentage of organic material of your soil on all your plots of this location?	1,5 - 3%
3906	What is the average annual rainfall?	600 - 1500 mm annually / 23 - 59 inch
3907	How many months per year may be regarded as exceptionally dry (less than 2% of the annual precipitation)?	2 - 6 months
3908	What is the average day and night temperature over a whole year?	< 20 degrees C / 68 degrees F on aver

#### Water management

45	Do you collect rainwater?	Yes
47	Do you collect leaking water while working with chemicals?	Yes
49	Do you record water use?	Yes
50	Do you use drip irrigation or recirculation?	Yes

#### Waste management

41	Do you process organic waste in a responsible way?	Yes
42	Do you process paper waste in a responsible way?	Yes
43	Do you process plastic waste in a responsible way?	Yes
44	Do you process chemical waste in a responsible way?	Yes

# OVERVIEW RECORDED DATA

MPS company number: **804178/01**  
 Company name: **Klaver Flowers PLC (total)**

Valid: **Period 8-2022 until Period 7-2023**  
 Version: **3-9-2023**

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
<b>FORM RECEIVED</b>			yes	yes	yes	yes	yes	yes	
<b>CROP PROTECTION AGENTS</b>									
3851	AgrixyL 407SL	ml	44020	51520	81661	38572	19324	53180	288277
4202	Amicop 50 WP	grams	119077	10400	37101	75860	30290	26200	298928
4172	Amidil 68 WG	grams			100	1700		39654	41454
4133	Amisil	ml	7637	4287					11924
4190	Amistar 250 SC	ml	4100		4600	1500	3114	17382	30696
4419	Atmos 200 SC	ml							
3409	Attracker	ml			50000				50000
3285	Avirmec 1.8 EC	ml	444						444
4156	Belt SC 480	ml	13269	11135	14339	9871	13757	17124	79495
3165	Bladbuff	ml	3600	1200	19800	52800	72000	97160	246560
4424	Chrysal GVB	ml	376000	532000	370750	412000	350750	423000	2464500
3957	Chrysal RVB Clear	ml						100000	100000
4233	Chryzoplus Grey 0.8%	grams		800	350	1000			2150
4480	CoverMax	ml		762	138				900
4318	Cutter 112 EC	ml		2446	4000	208	7072	3708	17434
3367	Danisaraba 20 SC	ml							
4089	Delegate 250 WG	grams	7632	12421	7367	22516	13000	36364	99300
4452	Episode 480 SC	ml	24	2860	6890	5920	6450	5700	27844
4386	Fast 80 WP	grams	7650	12054	33802	35077	19100	15227	122910
4437	Gladius 10 SC	ml			6000	6240	7540	28300	48080
3198	Golan (liquid)	ml	575	1800	2833	6365	7290	10334	29197
3023	Goldazim	ml	11388	174000	79040	75920	86310	514483	941141
3950	Hamlet 250 SC	ml	16562	3438	5218	8292	26007	20235	79752
4376	Hormoril 6	grams						3500	3500
4033	Kanemite 150 SC / 15 SC	ml			5258		5000	11442	21700
3071	Karate (50 g/l)	ml	5963		660	1000		4998	12621
3176	Kumulus DF	grams	353510	332200	282940	196200	282890	205600	1653340
4198	Matric 50 SC	ml							
3073	Meltatox 40 EC	ml							
3077	Nimrod 25 EC	ml							
3009	Nissorun 10 EC	ml				260	2080	7660	10000
3249	Nomolt	ml							
3241	Paraat	grams	32960	20000	49120	32660	1400	17480	153620
3083	Polar	grams	10556	10766	7546	4552	4955	37903	76278
3245	Previcur Energy	ml	31060	23360	30741	29860	12902	45338	173261
3987	Profit 72 EC	ml	7000						7000
3382	Prove 1.92 EC	ml							

# OVERVIEW RECORDED DATA (Continued)

MPS company number: **804178/01**

Company name: **Klaver Flowers PLC (total)**

Valid: Period 8-2022 until Period 7-2023

Version: 3-9-2023

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------

## CROP PROTECTION AGENTS (Continued)

3348	Revus	ml							
4043	Rhizopon AA Powder 1 %	grams							
3183	Rizolex 50 WP	grams	2474						2474
4002	Saf-T-Side 800EL	ml			37000	28000	58200	45374	168574
4019	Sportak	ml							
4517	T.O.G. L-101	ml							
4139	T.O.G.-3	ml		15000	20000	15000			50000
3215	T.O.G.-6	grams			30185		15000		45185
4132	T.O.G.-75	ml	75000	110000	145000	100000	41000	165000	636000
3185	Teldor 500 SC	ml	10400	11145	18861	9684	11730	2400	64220
3378	Teppeki 50 WG	grams	60		142		96		298
3332	Tivag	ml	856950	852500	693800	703600	753330	832025	4692205
4316	Trianium-P WG 1%	grams				4772		17838	22610
4027	Velum SC 500	ml	4000		750			4250	9000

## WATER

21	Total irrigation	m3	12577	19054	12584	28328	26643	29498	128684
----	------------------	----	-------	-------	-------	-------	-------	-------	--------

## ENERGY

4	Electricity from the grid (Total)	kWh					48360	75720	124080
54	Diesel oil/fuel	litres	13	1664	1300	559	106		3642
6	Green electricity from the grid	kWh					48360	75720	124080

## FERTILIZERS

572	Ammonium Sulphate (21%)	kg	375	450	600	425			1850
503	Calcium nitrate (nitrate of Lime) 15.5+0+0	kg	9000	9000	13500	9000	9000	15000	64500
506	Copper sulphate	kg	56,25	67,5	11,25	67,5	67,5	78,75	348,75
559	EDDHA chelated Iron 4%Fe	kg	50	60	90	60	60	70	390
734	Fe Chelate 3% DTPA	kg							
556	Iron DTPA 6%Fe	litres	175	315	770		195	390	1845
725	Magnesium Nitrate (MagNit) 11+0+0 (+16%MgO) Agril	kg							
521	Magnesium sulphate	kg	1875	2250	3375	2250	2250	1875	13875
599	Magnisal 11+0+0 (+16MgO)	kg	950	1485			760	1240	4435
513	Manganese sulphate	kg	950	90	15	90		90	1235

# OVERVIEW RECORDED DATA (Continued)

MPS company number: **804178/01**

Company name: **Klaver Flowers PLC (total)**

Valid: Period 8-2022 until Period 7-2023

Version: 3-9-2023

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------

## FERTILIZERS (Continued)

529	Mono-Ammonium Phosphate (MAP) 12+61+0	kg	675	810	220		540	960	3205
551	Nitric Acid 68%	litres	2100	2400	1625	1900	3300	3800	15125
515	Potassium nitrate 13+0+45	kg	300	150	545	150	900	1590	3635
626	Potassium Phosphite 0+30+20	litres	200	240	840	280	150	150	1860
517	Potassium Sulphate	kg	950	1750	1750	1750	950	1050	8200
674	Sodium Molybdate (HSI)	kg	15	18	42	18	18	36	147
537	Urea 46%	kg	375	675	950	100	1050	1900	5050
501	Zinc sulphate	litres	11,25	13,5	31,75	13,5	13,5	20,75	104,25

## ENVIRONMENTAL CLUSTERS

	Outdoor crops								
2118	LIMONIUM	m2	40000	40000	40000	40000	40000	40000	
2125	GYPSOPHILA	m2	540000	540000	540000	540000	540000	540000	
	Subtotal		580000	580000	580000	580000	580000	580000	
	Certified parental material								
664	GLOBALGAP certif. parental mat.	m2	580000	580000	580000	580000	580000	580000	