

EDAPLAN & METOLAT Guide Formulations for Organic Pigments

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Pigment Blue 15:1 – Phthalocyanine Blue

	Heliogen Blue L 6900		Heliogen Blue L 6920			LW-7151-B	BSX 1518	BF 412
	(BASF)		(BASF)			(Liwang Nantong)	(Zhenjiang Yabang)	(Changzhou Yabang)
Water demin.	30.30	31.20	28.00	45.30	27.35	22.70	27.80	31.70
AGITAN 731	0.50	0.50	0.50	1.00	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
METOLAT 390	28.00	--	35.00	--	--	--	--	--
EDAPLAN 397	--	--	--	13.60	--	--	--	--
EDAPLAN 490	--	28.00	--	--	--	31.50	29.40	22.50
EDAPLAN 494	--	--	--	--	32.00	--	--	--
Ammonia (25%)	1.10	0.20	1.40	--	0.05	0.20	0.20	0.20
Pigment	40.00	40.00	35.00	40.00	40.00	45.00	42.00	45.00
% Dispersant in delivery form on pigment	70%	70%	100%	34%	80%	70%	70%	50%
% Dispersant solid on pigment	38.5%	28%	55%	34%	40%	28%	28%	20%

Pigment Blue 15:3 – Phthalocyanine Blue

	BF 413 D (Changzhou Yabang)	BSX 1540 (Zhenjiang Jinyang)	LW-7151-A (Liwang Nantong)	TCB 15301 (Trust Chem)	Heliogen Blue L 7085 (BASF)	Sunfast Blue (249-9827) (Sun Chemical)		Fastogen Blue 5380E (249-5380) (Sun Chemical)		
Water demin.	31.70	31.70	31.70	39.40	47.30	34.20	31.70	47.30	34.20	40.05
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
EDAPLAN 397	--	--	--	--	6.75	--	--	12.00	--	--
EDAPLAN 490	--	--	--	20.00	--	15.00	--	--	15.00	--
EDAPLAN 492	--	22.50	--	--	--	--	17.50	--	--	--
EDAPLAN 494	22.50	--	22.50	--	--	--	--	--	--	22.20
Ammonia (25%)	0.20	0.20	0.20	--	0.35	--	0.20	0.10	0.20	0.15
AMP 95	--	--	--	--	--	0.20	--	--	--	--
Pigment	45.00	45.00	45.00	40.00	45.00	50.00	50.00	40.00	50.00	37.00
% Dispersant in delivery form on pigment	50%	50%	50%	50%	15%	30%	35%	30%	30%	60%
% Dispersant solid on pigment	25%	17.5%	25%	20%	15%	12%	12.5%	30%	12%	30%

Pigment Blue 60 – Indanthrone Blue

	Palomar Blue 60 (260-2825) (Sun Chemical)
Water demin.	16.15
AGITAN 731	0.50
Acticide MBS	0.10
EDAPLAN 492	38.25
Ammonia (25%)	0.00
Pigment	45.00
% Dispersant in delivery form on pigment	85%
% Dispersant solid on pigment	29.8%

Pigment Green 7 – Phthalocyanine Green

	LW-6007-E (Liwang Nantong)	G 710 (Zhenjiang Jinyang)	GF 311 (Changzhou Yabang)	Sunfast Green 7 (264-7600) (Sun Chemical)			Heliogen Green L 8730 (BASF)		
Water demin.	39.80	21.70	21.70	49.70	35.25	40.00	40.00	31.20	35.30
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
EDAPLAN 397	11.90	--	--	9.60	--	--	11.90	--	--
EDAPLAN 490	--	27.50	27.50	--	24.00	--	--	28.00	--
EDAPLAN 494	--	--	--	--	--	19.20	--	--	24.00
Ammonia (25%)	0.20	0.20	0.20	0.10	0.15	0.20	--	0.20	0.10
Pigment	47.50	50.00	50.00	40.00	40.00	40.00	47.50	40.00	40.00
% Dispersant in delivery form on pigment	25%	55%	55%	24%	60%	48%	25%	70%	60%
% Dispersant solid on pigment	25%	22%	22%	24%	24%	24%	25%	28%	30%

Pigment Orange 5 – Monoazo Orange

	Hansa Red GG (Clariant)	TC-00502 (Trust Chem)
Water demin.	32.90	41.30
AGITAN 731	0.50	0.50
Acticide MBS	0.10	0.10
PEG 300	10.00	--
METOLAT 392	--	18.00
EDAPLAN 494	16.00	--
Ammonia (25%)	0.50	0.10
Pigment	40.00	40.00
% Dispersant in delivery form on pigment	40%	45%
% Dispersant solid on pigment	20%	20%

Pigment Orange 36 – Benzimidazolone Orange

	Novoperm Orange HL 70 (Clariant)		
Water demin.	34.40	41.95	50.50
AGITAN 731	0.50	--	0.50
AGITAN 760	--	1.00	--
Acticide MBS	0.10	0.10	0.10
EDAPLAN 490	15.00	--	--
EDAPLAN 492	--	14.45	--
EDAPLAN 494	--	--	8.80
Ammonia (25%)	--	--	0.10
Pigment	50.00	42.50	40.00
% Dispersant in delivery form on pigment	30%	34%	22%
% Dispersant solid on pigment	12%	12%	11%

Pigment Orange 73 – Diketopyrrolopyrrol Orange

	Cinilex DPP Orange SJ1C (Cinic)	
Water demin.	29.55	25.05
AGITAN 731	0.50	0.50
Acticide MBS	0.10	0.10
EDAPLAN 490	24.75	--
EDAPLAN 494	--	29.25
Ammonia (25%)	0.10	0.10
Pigment	45.00	45.00
% Dispersant in delivery form on pigment	55%	65%
% Dispersant solid on pigment	22%	32.5%

Pigment Red 2 - Naphthol AS-Red

	Heuco Red 300203 (Heubach)	
Water demin.	38.20	37.65
AGITAN 731	0.50	0.50
Acticide MBS	0.10	0.10
EDAPLAN 395	21.20	--
EDAPLAN 490	--	14.25
Pigment	40.00	47.50
% Dispersant in delivery form on pigment	53%	30%
% Dispersant solid on pigment	16%	12%

Pigment Red 4 – Naphthol AS-Red

	Hansa Red R (Clariant)
Water demin.	36.15
AGITAN 731	0.50
Acticide MBS	0.10
EDAPLAN 490	8.25
Pigment	55.00
% Dispersant in delivery form on pigment	15%
% Dispersant solid on pigment	6%

Pigment Red 48:1 – Monoazo BONA

	Bonitholred HTR 4814 C (Cappelle)	
Water demin.	34.05	27.05
AGITAN 731	0.50	0.50
Acticide MBS	0.10	0.10
EDAPLAN 396	20.25	--
EDAPLAN 494	--	29.75
Ammonia (25%)	0.10	0.10
Pigment	45.00	42.50
% Dispersant in delivery form on pigment	45%	70%
% Dispersant solid on pigment	16%	35%

Pigment Red 53:1 - Monoazo β -Naphthol

	Lackrot YT-NC 5310 C (Cappelle)	Lake Red C 258 (Hang Zhou Bai He)		
Water demin.	37.60	43.20	35.25	40.00
AGITAN 731	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10
EDAPLAN 396	19.10	16.00	--	--
EDAPLAN 490	--	--	24.00	--
EDAPLAN 494	--	--	--	19.20
Ammonia (25%)	0.20	0.20	0.15	0.20
Pigment	42.50	40.00	40.00	40.00
% Dispersant in delivery form on pigment	45%	40%	60%	48%
% Dispersant solid on pigment	13.5%	14%	24%	24%

Pigment Red 57:1 – Monoazo BONA

	Lithol Red (Hang Zhou Bai He)	Lithol Red 3160 (Chang Zhou North America)			Symuler Brilliant Carmine 6B 350 K (Sun Chemical)		
Water demin.	63.10	38.90	39.40	44.70	48.65	37.75	35.30
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10	0.10
METOLAT 390	--	--	--	--	15.20	--	--
METOLAT 394	16.00	--	--	--	--	--	--
EDAPLAN 396	--	20.00	--	--	--	19.10	--
EDAPLAN 490	--	--	24.50	--	--	--	--
EDAPLAN 494	--	--	--	19.60	--	--	24.00
Ammonia (25%)	0.30	0.50	0.50	0.10	0.55	0.05	0.10
Pigment	20.00	40.00	35.00	35.00	35.00	42.50	40.00
% Dispersant in delivery form on pigment	80%	50%	70%	56%	43.5%	45%	60%
% Dispersant solid on pigment	44%	17.5%	28%	28%	24%	16%	30%

Pigment Red 122 – Quinacridone Red

	Hostaperm Pink E (Clariant)		TCR 12203 (Trust Chem)
Water demin.	54.10	54.30	45.40
AGITAN 731	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10
METOLAT 392	--	--	14.00
EDAPLAN 394	15.00	--	--
EDAPLAN 490	--	15.00	--
Ammonia (25%)	0.30	0.10	--
Pigment	30.00	30.00	40.00
% Dispersant in delivery form on pigment	50%	50%	45%
% Dispersant solid on pigment	27.5%	20%	20%

Pigment Red 170 – Naphtol AS Red

	Lysopac Red 7030 C (Cappelle)	Novoperm Red F2RK70 (Clariant)
Water demin.	33.40	25.35
AGITAN 731	0.50	0.50
Acticide MBS	0.10	0.10
PEG 300	--	10.00
EDAPLAN 490	11.00	--
EDAPLAN 494	--	21.25
Ammonia (25%)	--	0.30
Pigment	55.00	42.50
% Dispersant in delivery form on pigment	20%	50%
% Dispersant solid on pigment	8%	25%

Pigment Red 179 – Perylene Red

	Sunfast Red (229-8801) (Sun Chemical)
Water demin.	31.25
AGITAN 731	0.50
Acticide MBS	0.10
EDAPLAN 490	28.00
Ammonia (25%)	0.15
Pigment	40.00
% Dispersant in delivery form on pigment	70%
% Dispersant solid on pigment	28%

Pigment Red 188 – Naphtol AS- Red

	Sunbrite Red 188 (235-0188) (Sun Chemical)
Water demin.	35.00
AGITAN 731	0.50
Acticide MBS	0.10
METOLAT 390	28.00
Ammonia (25%)	1.40
Pigment	35.00
% Dispersant in delivery form on pigment	80%
% Dispersant solid on pigment	44%

Pigment Red 254 - Diketopyrrolopyrrol Red

	Cinilex DPP Red SR2P			Cinilex DPP Red SRAP	Hostaperm-Red D3G 70	D 20
	(Cinic)			(Cinic)	(Clariant)	(Lily Group)
Water demin.	33.35	31.50	33.20	40.70	32.90	28.40
AGITAN 731	0.50	1.00	1.00	0.50	0.50	0.50
Acticide MBS	0.10	--	0.10	0.10	0.10	0.10
Propylene glycol	--	--	--	--	10.00	--
METOLAT 390	--	--	--	--	21.00	20.00
EDAPLAN 395	--	22.50	--	--	--	--
EDAPLAN 397	--	--	--	13.50	--	--
EDAPLAN 490	11.00	--	--	--	--	--
EDAPLAN 494	--	--	20.70	--	--	--
Ammonia (25%)	0.05	--	0.10	0.20		1.00
AMP 90	--	--	--	--	0.50	--
Pigment	55.00	45.00	45.00	45.00	35.00	50.00
% Dispersant in delivery form on pigment	20%	45%	46%	30%	60%	40%
% Dispersant solid on pigment	8%	13.5%	23%	30%	33%	22%

Pigment Violet 23 – Dioxazine Violet

	Hostaperm-Violet RL 02 (Clariant)	Hostaperm-Violet RL spezial (Clariant)	PV 23 BL (Dongtai City)	PV 23 BL (Nantong Longxiang)	PV 23 RL (Nantong Haidi)	PV 23 RL (Wuxi Xinguang)
Water demin.	55.45	33.25	39.80	29.30	36.30	39.80
AGITAN 731	0.50	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10	0.10
EDAPLAN 490	16.85	26.00	24.50	35.00	28.00	24.50
Ammonia (25%)	0.10	0.15	0.10	0.10	0.10	0.10
Pigment	27.00	40.00	35.00	35.00	35.00	35.00
% Dispersant in delivery form on pigment	62.5%	65%	70%	100%	80%	70%
% Dispersant solid on pigment	25%	26%	28%	40%	32%	28%

Pigment Yellow 74 – Monoazo Yellow

	Acetanylyellow 5 GSH 7412 C (Cappelle)		Hansabrilant Yellow 2 GX 70 (Clariant)	Irgalite Yellow L 1254 HD (BASF)	TCY 07402 O (Trust Chem)
Water demin.	37.90	35.55	30.70	31.30	35.45
AGITAN 731	0.50	0.50	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10	0.10	0.10
METOLAT 390	20.00	--	22.50	22.50	18.00
EDAPLAN 490	--	21.25	--	--	--
Ammonia (25%)	1.50	0.10	1.20	0.60	0.95
Pigment	40.00	42.50	45.00	45.00	45.00
% Dispersant in delivery form on pigment	50%	50%	50%	50%	40%
% Dispersant solid on pigment	27.5%	20%	24.8%	24.8%	22%

Pigment Yellow 83 – Diarylide Yellow

	Diacetanilyellow HT 8316 C (Cappelle)		Novoperm Yellow HR 02 (Clariant)
Water demin.	53.35	43.15	29.25
AGITAN 731	0.50	0.50	0.50
Acticide MBS	0.10	0.10	0.10
EDAPLAN 395	16.05	--	--
EDAPLAN 490	--	16.00	30.00
Ammonia (25%)	--	0.25	0.15
Pigment	30.00	40.00	40.00
% Dispersant in delivery form on pigment	53.5%	40%	75%
% Dispersant solid on pigment	16%	16%	30%

Pigment Yellow 110 – Isoindolinone Yellow

	Cinilex DPP Yellow SY1H (Cinic)
Water demin.	34.40
AGITAN 731	0.50
Acticide MBS	0.10
METOLAT 490	15.00
Pigment	50.00
% Dispersant in delivery form on pigment	30%
% Dispersant solid on pigment	12%

Pigment Yellow 111 – Arylamide Yellow

	Hansabright Yellow 7 GX (Clariant)
Water demin.	47.65
AGITAN 731	0.50
Acticide MBS	0.10
METOLAT 390	21.00
Ammonia (25%)	0.75
Pigment	30.00
% Dispersant in delivery form on pigment	70%
% Dispersant solid on pigment	38.5%

Pigment Yellow 150 – Nickel- Azo- Yellow

	Fanchon Yellow 150 279-6438 (Sun Chemical)
Water demin.	35.20
AGITAN 731	0.50
Acticide MBS	0.10
METOLAT 390	24.00
Ammonia (25%)	0.20
Pigment	40.00
% Dispersant in delivery form on pigment	60%
% Dispersant solid on pigment	19.2%

Pigment Yellow 155- Benzimidazolone Yellow

	Novoperm Yellow 4 G (Clariant)
Water demin.	47.10
AGITAN 731	0.50
Acticide MBS	0.10
METOLAT 392	12.00
Ammonia (25%)	0.30
Pigment	40.00
% Dispersant in delivery form on pigment	30%
% Dispersant solid on pigment	16.5%

Pigment Yellow 185- Isoindolinone Yellow

	Paliotol Yellow L 1155 (BASF)	
Water demin.	46.90	48.20
AGITAN 731	0.50	0.50
Acticide MBS	0.10	0.10
EDAPLAN 490	13.50	--
EDAPLAN 492	--	21.00
Ammonia (25%)	--	0.20
Pigment	30.00	30.00
% Dispersant in delivery form on pigment	45%	70%
% Dispersant solid on pigment	18%	24.5%