



MARUTI
MULTICHEM PVT. LTD.

**Manufacturers & Exporters of
Reactive & Turquoise Blue Dyes**

C-1/1211, Phase IV, B/h. Gayatri Temple,
G.I.D.C. Estate, Naroda, Ahmedabad - 382 330. India.
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GAURAV
INDUSTRIES PVT. LTD.

**Manufacturers & Exporters of
Reactive Blacks & Bi-Functionals Dyes**

C-1/1212, 1213, 1214, Phase IV, B/h. Gayatri Temple,
G.I.D.C. Estate, Naroda, Ahmedabad - 382 330. India.
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MARUTI
MULTICHEM PVT. LTD.



GAURAV
INDUSTRIES PVT. LTD.

Reactive Dyestuffs
Including Turquoise Blues



(GOTS Certified)
**Control Union
Certifications**
REACH PRE-REGISTERED

MARUTIFIX PRINTING DYES		Printing Depth (G / L)	Solubility (G / L)	FASTNESS PROPERTIES										Chdrinated Water 20 ppm
				Light ISO 105 B02		Washing ISO 105 C03		Perspiration ISO 105 E04		Rubbing ISO 105 X12				
		On Cotton		Light	1/3 S.D.	1/1 S.D.	CH	CO	CH	CO	CH	CO	CH	
Brill. Yellow P6G Reactive Yellow 95		4	150	5	6-7	4-5	5	4	4-5	5	4-5	4-5	4	3
Yellow P8G Reactive Yellow 85		4	150	5	6-7	4-5	5	4	4-5	5	4-5	4-5	4	3
Yellow P4G Reactive Yellow 18		4	100	5	6	4-5	5	4-5	4	4-5	4	4-5	4	4
Gol. Yellow P3R Reactive Orange 12		4	100	5	6	4-5	4-5	4	3	4	3	4-5	4	4
Brill. Orange P2R Reactive Orange 13		4	100	3-4	4-5	4-5	4-5	4-5	4	4-5	4	4-5	3	4
Brill. Orange PGN Reactive		4	70	4	4-5	4	4	4-5	4	4-5	4	4-5	3	4
Red PB Reactive Red 24		4	100	4	4-5	4	4-5	4-5	4	4-5	4-5	4-5	2-3	4
Red P2B Reactive Red 45		4	100	4	4-5	4	4	4-5	4	4-5	4	4	2-3	4
Red P4BN Reactive Red 245		4	100	4	4-5	4	4	4-5	4	4-5	4	4	2-3	4
Red P6B Reactive Red 218		4	100	4	4-5	4	4	4-5	4	5	4	4	2-3	4
Red P8B Reactive Red 31		4	80	4	4-5	4-5	4	4	4	4	4	4	2-3	4
Blue P5R Reactive Blue 13		4	80	4	4	3	4	4	3	4	3	4	2-3	4
Blue PGR Reactive Blue 5		4	100	4	4-5	4-5	4	4	4	4	4	4	2-3	4
Blue P3R Reactive Blue 49		4	100	4	4-5	4	4	4-5	4	4-5	4	4	2-3	4
Navy Blue P2R Reactive Black 39		4	90	4	4-5	4	4	4-5	4	4-5	4	4-5	3	4
Turquoise Blue PGR Reactive Blue 72		4	120	5	6-7	3-4	4-5	4-5	4-5	4	4	4	2-3	4
Magenta PB Reactive Violet 46		4	100	4	4-5	4	4	4-5	4	4-5	4	4	2-3	4
Purple P3R Reactive Violet 1		4	100	4	4-5	4	4	4-5	4	4	4	4	2-3	4
Brown P5BR Reactive Brown 9		4	80	4	4-5	4	4	4-5	4	4	4	4	2-3	4
Brown PGR Reactive Brown 11		4	80	4	4-5	4	4	4-5	4	4	4	4	2-3	4
Black PN Reactive Black 8		4	80	4	4-5	4	4	4-5	4	4	4	4	2-3	4
Black PGR Reactive Black Mix		4	100	4	4-5	4	4	4-5	4	4-5	4	4	2-3	4

MARUTIFIX "ME" Bi-Functional DYES	On Cotton	Dyeing Depth % (o.w.f.)	Solubility (G / L)	FASTNESS PROPERTIES										Chdrinated Water 20 ppm
				Light ISO 105 B02		Washing ISO 105 C03		Perspiration ISO 105 E04				Rubbing ISO 105 X12		
		Light		1/3 S.D.	1/1 S.D.	CH	CO	CH	CO	CH	CO	CH	CO	
Yellow ME4GL 150% Reactive Yellow 160		3	150	4	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5	3	3-4
Gold. Yellow MERL 150% Reactive Yellow 145		3	180	5	5-6	4-5	4-5	4-5	4	4-5	4-5	4-5	3-4	4
Yellow SPR		3	180	5	5-6	4-5	4-5	4-5	4	4-5	4-5	4-5	3-4	4
Orange ME2RL 150% Reactive Orange 122		3	100	3	3	3-4	4	4	4-5	4-5	4-5	3	3	3-4
Red RB Reactive Red 198A		3	150	4	4-5	4-5	4	4	4	4-5	4	4	4	4
Red ME4BL 150% Reactive Red 195		3	180	4	4-5	4-5	4-5	4-5	4	4-5	3-4	4-5	3	4
Red ME6BL 150% Reactive Red 250		3	150	4	4-5	4-5	4-5	4-5	4	4-5	4	4-5	3	4
Red GF Reactive Red 223		3	150	4	4-5	4-5	5	4-5	4	4-5	4	4-5	4	4
Red BS Reactive Red 111		3	100	4	4-5	4-5	4	4-5	4	4-5	4	4-5	4	4
Navy Blue ME2GL Reactive Blue 194		3	100	4	4	4	4	4-5	4	4-5	4	4-5	4	4
Navy Blue ME2RL Reactive Blue 248		3	100	4	3-4	4	4-5	4-5	4	4-5	4	4-5	4	3-4
Blue BRF 150% Reactive Blue 221		3	120	4	4	4	4-5	4-5	4	4-5	4	4-5	4	3-4
Navy Blue BF Reactive Blue 222A		3	150	4	4	4	4-5	4-5	4	4-5	4	4-5	4	3-4
Blue FNG		3	150	4	5	5	5	5	5	5	5	5	4-5	5

Marutifix Black Series Reactive Dyes

Black B 150% Reactive Black 5		6	180	3-4	4	4-5	4-5	5	4-5	5	4-5	5	3	5
Black WNN Reactive Black Mix		6	180	3-4	4	4	4	5	4-5	5	4-5	5	3	5
Black NG Reactive Black Mix		6	180	3-4	4	4-5	4-5	5	4-5	5	4-5	5	3	5
Black WM Reactive Black Mix		6	180	4	4-5	4	4-5	5	4-5	5	4-5	5	3	5
Black NN Reactive Black Mix		6	180	4	4-5	4	4	5	4-5	5	4-5	5	3	5
Black TNN Reactive Black Mix		6	180	3-4	4	4-5	4-5	5	4-5	5	4-5	5	3	5
Black DN (Conc.) Reactive Black Mix		6	180	3-4	4	4	4	5	4-5	5	4-5	5	3	5
Black GXG Reactive Black Mix		6	180	3-4	4	4-5	4-5	5	4-5	5	4-5	5	3	5
Black GDR-N Reactive Black Mix		6	180	4	4-5	4	4-5	5	4-5	5	4-5	5	3	5
Navy Blue KB Reactive Black Mix		6	180	4	4-5	4	4	5	4-5	5	4-5	5	3	5
Navy Blue SGG Reactive Black Mix		6	180	4	4	4-5	4-5	5	4-5	5	4-5	5	3	5

Maruti Multichem "S" Type Dyes
(Multispeciality Dyes)

		Fastness @ 3%											
		Solubility 80°C	Light 1/1	Wash 50°C			Alk. Persp.			Water			
				C	N	W	C	N	W	C	N	W	
Yellow S3R		100	4/5	4/5	4/5	5	5	5	4/5	4/5	4/5	4/5	
Orange S3R		100	4	4/5	4/5	4/5	5	5	4/5	4/5	4/5	4/5	
Orange G		100	4	4/5	4/5	4/5	5	5	4/5	4/5	4/5	4/5	
Red S2B													
Deep Red SB		100	4	4/5	4/5	4/5	4	4	4/5	4/5	4/5	4/5	
Royal Blue SFR		100	4	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	
Dark Blue SGL		100	6	5	4/5	5	4/5	4/5	4/5	4/5	4/5	4/5	
Navy SG		100	4/5	5	5	5	4/5	5	4/5	4	4	4/5	
Black FN		100	4	4/5	4/5	4/5	4/5	5	4/5	4/5	4/5	4/5	
Black GXG		100	4	4	4	4	4/5	4/5	4/5	4	4/5	4/5	
Black GDR-N		100	4	4	4	4	4/5	4	4/5	4	4	4/5	

C = Cotton, N = Nylon, W = Wool

Maruti Multichem RR Dyes

	On Cotton	% o.w.f.	C. I. Reactive	Solubility	Light	Fastness			Dischargeability
						Washing	Rubbing	Hypochlorite	
Yellow RR		3	Not Indexed	200	5	5 4-5	5 4-5	3	A A
Orange RR		3	Not Indexed	150	5	5 4-5	5 4-5	3	A A
Red RR		3	Not Indexed	200	4-5	4-5 4	5 3-4	2-3	A A
Blue RR		3	Not Indexed	200	4	5 4-5	5 4-5	3-4	A A

Maruti Multichem RGB Dyes

Yellow RGB		3	Not Indexed	200	5	5	5	3	A
Red RGB		3	Not Indexed	200	5	5	5	3	A
Blue RGB		3	Not Indexed	200	4-5	4-5	5	2-3	A
Navy Blue RGB		3	Not Indexed	200	4	5	5	3-4	A

Maruti Multichem "M" Cold Brand Dyes
Dichlorotriazine Type

	On Cotton	% o.w.f.	C. I. Reactive	Solubility	Light	Fastness			Dischargeability
						Washing	Rubbing	Hypochlorite	
Yellow MGR		3	Yellow 7	25	6	5 4-5	4-5 4	4-5	C C
Yellow M4G		3	Yellow 22	80	5	5 4-5	4-5 3-4	1	A A
Yellow M8G		3	Yellow 86	50	5-6	5 4-5	5 4	1	A B
Yellow M4R		3	Orange 14	100	4	5 4	4 3-4	1	B C
Yellow M3R		3	Orange 86	100	4	4-5 4	4 3-4	2-3	B C
Golden Yellow MR		3	Yellow 44	80	3-4	4-5 4	4 3-4	2-3	C D
Orange M2R		3	Orange 4	80	4	5 4-5	5 4-5	3	C D
Red M5B		3	Red 2	50	3-4	4-5 4	5 3-4	1	C D
Red M8B		3	Red 11	80	4	4-5 4-5	5 3	4	D D
Pink MB		3	Red 74	40	4-5	4-5 4	5 4	2	D D
Violet M4R		3	Violet 12	80	4	4-5 4	4-5 3-4	3	D D
Magenta MB		3	Violet 13	60	4-5	4-5 4	5 3-4	3	D D
Violet M2R		3	Violet 14	60	4	4-5 4	4-5 3-4	3	D D
Blue MR		3	Blue 4	150	6	5 4-5	5 4-5	2	D D
Navy Blue M3R		3	Blue 9	120	4	5 4	4-5 4	2-3	C D
Blue M2R		3	Blue 81	80	2-3	5 4	4-5 3	2	D D
Blue M4GD		3	Blue 168	150	5-6	5 4-5	5 4-5	3	C D
Blue MX7R		3	Blue 161	80	4	5 3	4-5 3	3	D D

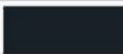
Maruti Multichem HEXL Dyes
(Bismonochlorotriazine)

Yellow HEXL		3	Yellow 138.1	150	4-5	5	5	4	C
Crimson HEXL		3		150	4-5	4-5	5	4-5	D
Navy HEXL		3		150	3-4	5	5	3	B

Marutifix "HE" Dyes
(Bismonochlotriazine Type)

MARUTIFIX "HE" (High Exhaust) DYES	On Cotton	Dyeing Depth % (o.w.f.) Light	Solubility (G / L) Water 30°C	FASTNESS PROPERTIES										Chdrinated Water (10 mg.)
				Light ISO 105 B02		Washing C06/C2 (Stain)		Perspiration M&S C7				Rubbing		
								Acid		Alkali				
	1/3 S.D.	1/1 S.D.		Cotton	Nylon	Cotton	Nylon	Cotton	Nylon	Dry	Wet			
Yellow HE6G Yellow 135		3	60	4	4-5	4-5	4-5	4	4-5	4	4-5	5	4	4
Yellow HE4G Yellow 81		3	15	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4	3-4
Yellow HE4R Yellow 84		3	100	4	4-5	4	4-5	4-5	4-5	4-5	4-5	5	4	4
Orange HER Orange 84		3	30	3-4	3-4	4	4-5	4	4-5	4	4-5	5	4	4-5
Orange HE2R Orange 94		3	200	3-4	4	4	4-5	4	4	4	4-5	4-5	4	4-5
Red HE3B Red 120		3	200	4	4-5	4	4-5	4-5	4-5	4-5	4-5	5	3-4	4
Red HE7B Red 141		3	200	3-4	4	4	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4
Red HE8B Red 152		3	100	3	3-4	3	4-5	4	4	4	4-5	4-5	3	4
Turquoise Blue HA Turquoise Blue 71		3	60	4	4-5	3	4	3-4	4	3	4	4-5	3	4
Blue HEGN-125% Blue 198		3	200	4-5	5	4	4-5	4	4-5	4	4-5	4-5	4	3
Blue HERD Blue 160		3	150	4	4	3-4	4-5	4-5	4-5	4-5	4-5	5	4	4
Navy Blue HER-150% Blue 171		3	120	3-4	3-4	4	4-5	4-5	4-5	4-5	4-5	5	4	3-4
Navy Blue HE2R Blue 172		3	100	3-4	4	2-3	4-5	4-5	4-5	4-5	4-5	5	3-4	3-4
Green HE4BD Green 19A		3	60	3-4	4	3-4	4-5	4-5	4-5	4-5	4-5	5	3-4	3

Marutifix "ED" Dyes
(Trifunctional Dyes)

MARUTIFIX "ED" DYES	On Cotton	(OWF) %	Light	Washing		Chlorine Bleach	Perspiration		Rubbing	
				CH	CO		Acid	Alkali	Dry	Wet
Yellow ED		3	4-5	4	4-5	2	4	4-5	4-5	3-4
Orange ED2R		3	4	4	4	3-4	4	4	4	3
Red ED		3	4-5	4	4	3-4	4	4	4	3
Red ED-3B		3	4-5	4	4	3-4	4	4	4	3
Red ED-4B		3	4-5	4	4-5	4	4	4-5	4-5	3
Blue ED		3	4-5	4	4-5	3	4	4-5	4-5	3
Navy Blue ED		3	4-5	4	4-5	4	4	4-5	4	3
Black ED		3	4-5	4	4-5	4	4	4-5	4-5	3