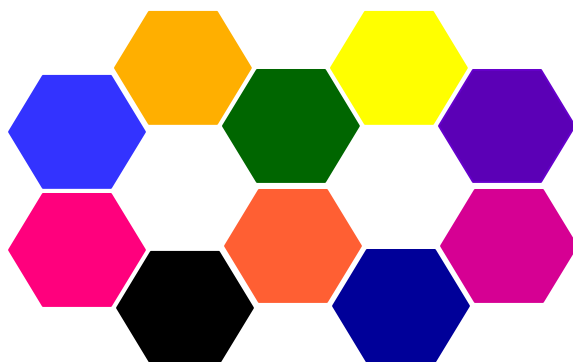


REACTOBOND DYESTUFFS



In to a colourful business...



















MEGHMANI
DYES AND INTERMEDIATES LTD.

Meghmani Dyes And Intermediates Ltd.

















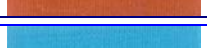

Product List

Reactobond Bi-Functional Dyestuffs

No.	Reactobond	C.I. Name	Available Form		% Shade 40 g / kg
			Grains	Well De-Dusted Powder	
01	Yellow 4GL Conc	Yellow 160A	✓	✓	
02	Yellow 3RX 150%	Yellow 145	✓	✓	
03	Orange 2RX Conc	Orange 122	✓	✓	
04	Scarlet 2GX	Red 222		✓	
05	Red GX 150%	Red 223	✓	✓	
06	Red 2GX 125%	Red 194		✓	
07	Red 3BX 150%	Red 195	✓	✓	
08	Red 6BX 150%	Red 250	✓	✓	
09	Blue 2GX 125%	Blue 194		✓	
10	N. Blue 3GX	Blue 223	✓	✓	
11	N. Blue BX	Blue 222	✓	✓	
12	Blue BRX 150%	Blue 221	✓	✓	
13	Black GR	Black Mix	✓	✓	
14	Black GRD 120%	Black Mix	✓	✓	
15	Black GRP	Black Mix	✓	✓	
16	Black GF	Black Mix	✓	✓	










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Reactobond Vinyl Sulphone Dyestuffs

No.	Reactobond	C.I. Name	Available Form		% Shade 40 g / kg
			Grains	Well De-Dusted Powder	
01	Yellow 4GL	Yellow 186	✓	✓	
02	Yellow GL 150%	Yellow 37		✓	
03	Yellow FG	Yellow 42		✓	
04	Yellow GN 150%	Yellow 23		✓	
05	Yellow GR 150%	Yellow 15	✓	✓	
06	Golden Yellow G 120%	Yellow 17		✓	
07	Yellow RNL 150%	Orange 107	✓	✓	
08	Orange 96 150%	Orange 96		✓	
09	Golden Orange 3G 200%	Orange 72		✓	
10	Orange 3R	Orange 16		✓	
11	Red 5B 150%	Red 35		✓	
12	Red 3B 150%	Red 23		✓	
13	Red BN	Red 22		✓	
14	Red RB 140%	Red 198	✓	✓	
15	Red BB 150%	Red 21	✓	✓	
16	Red 5BX	Red 198A		✓	
17	Bordeaux B 170%	Red 49		✓	
18	Violet 5R 140%	Violet 5		✓	
19	Brown GR	Brown 18		✓	
20	Turq. Blue G 150%	Blue 21		✓	















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Reactobond Vinyl Sulphone Dyestuffs

No.	Reactobond	C.I. Name	Available Form		% Shade 40 g / kg
			Grains	Well De-Dusted Powder	
21	Green 6B	Blue 38		✓	
22	Blue BB 133%	Blue 220	✓	✓	
23	Blue R 150%	Blue 19		✓	
24	Blue 3R	Blue 28		✓	
25	Dark Blue HR	Blue 89		✓	
26	Navy Blue GG	Blue 203		✓	
27	Blue RGB 150%	Blue 250	✓	✓	
28	Black B 150%	Black 5	✓	✓	
29	Black RL	Black 31		✓	





















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Reactobond High Exhaust Dyestuffs

No.	Reactobond	C.I. Name	Available Form		% Shade 40 g / kg
			Grains	Well De-Dusted Powder	
01	Yellow HE6G	Yellow 135		✓	
02	Yellow HE4G	Yellow 105		✓	
03	Golden Yellow HE4R	Yellow 84	✓	✓	
04	Orange HER	Orange 84	✓	✓	
05	Red HE3B	Red 120	✓	✓	
06	Red HE7B	Red 141	✓	✓	
07	Navy Blue HER 150%	Blue 171	✓	✓	
08	Navy Blue HE2R	Blue 89		✓	
09	Blue HERD	Blue 160		✓	
10	Blue HEGN	Blue 198		✓	
11	Green HE4BD	Green 19		✓	
12	Yellow HEXL	Yellow -	✓	✓	
13	Crimson HEXL	Crimson -		✓	
14	Navy Blue HEXL	Blue -	✓	✓	








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Reactobond 'H' Dyestuffs

No.	Reactobond	C.I. Name	Available Form		% Shade 40 g / kg
			Grains	Well De-Dusted Powder	
01	Yellow P5G	Yellow 2		✓	
02	Yellow P4G	Yellow 18		✓	
03	Golden Yellow PR	Orange 12		✓	
04	Orange P2R	Orange 13		✓	
05	Scarlet PB	Scarlet -		✓	
06	Red PB	Red 24		✓	
07	Red P3B	Red 45		✓	
08	Red P6B	Red 76		✓	
09	Red P8B	Red 31		✓	
10	Red P8BN	Red 58		✓	
11	Green PB	Green -		✓	
12	Brown PB	Brown -		✓	
13	Brown P4R	Brown 9		✓	
14	Magenta PB	Violet 13		✓	
15	Purple P3R	Violet 1		✓	
16	Blue P5R	Blue 13		✓	
17	Navy Blue P3R	Blue 49		✓	
18	Navy Blue P2R	Black 39		✓	
19	Black PN	Black 8		✓	
20	Black PGR	Black -	✓	✓	

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Reactobond 'XL' Dyestuffs

No.	Reactobond	C.I. Name	Available Form		Shade 2% OWF
			Grains	Shade	
01	Yellow XL	Yellow -	✓	✓	
02	Red XL	Red -	✓	✓	
03	Red XL3B	Red -	✓	✓	
04	Navy Blue XL	Blue -	✓	✓	
05	Blue XL	Blue -	✓	✓	
06	Black XL	Black -	✓	✓	
07	Black XLW	Black -	✓	✓	

Recommendation for Exhaust Dyeing at 60°C

Standard Pale Shade :

Reactobond Yellow 3RX 150%

Reactobond Red 3BX 150%

Reactobond Blue BX

Reactobond Black B 133% for economical shade

High Light Fast Pale Shade :

Reactobond Yellow 3RX 150%

Reactobond Bordeaux B 170%

Reactobond Blue BRX

Standard Medium – Deep Shade :

Reactobond Yellow XL

Reactobond Red XL3B

Reactobond Navy Blue XL

Bright Shade :

Greens	-	Reactobond Yellow 4GL Conc
Orange & Scarlet	-	Reactobond Orange 2RX Conc
Dischargeable Yellowish Red	-	Reactobond Red GX 150%
Yellowish Red	-	Reactobond Red 2GX 125%
Bluish Red	-	Reactobond Red 6BX 150%

Deep Shade :

Greens	-	Reactobond Yellow XL
Scarlet	-	Reactobond Red XL
Orange	-	Reactobond Yellow XL & Reactobond Red XL3B
Red	-	Reactobond Red XL & Reactobond Red XL3B
Black	-	Reactobond Black XLW

Recommendation for Pad-Batch Dyeing

Standard Pale Shade :

Reactobond Yellow GR 150%

Reactobond Red RB 140%

Reactobond Blue RGB 150%

Reactobond Black B 150% for economical shade

High Light Fast Pale Shade :

Reactobond Yellow GR 150%

Reactobond Bordeaux B 170%

Reactobond Blue R 150%

Reactobond Blue BB 133% for economical shade

Standard Medium – Deep Shade :

Reactobond Yellow XL

Reactobond Red XL3B

Reactobond Blue BB 133%

Reactobond Navy Blue XL for economical shade

Deep Shade :

Scarlet	-	Reactobond Red XL
Orange	-	Reactobond Yellow XL & Reactobond Red XL3B
Red	-	Reactobond Red XL & Reactobond Red XL3B
Black	-	Reactobond Black XLW

Reactobond Black GF for Dischargeable to white

List of the arylamines that are not allowed to be split off from dyes under reductive conditions	
<u>Name</u>	<u>CAS-Nr.</u>
MAK III, category 1	
4-Aminobiphenyl	92-67-1
Benzidine	92-87-5
4-Chloro-o-toluidine	95-69-2
2-Naphthylamine	91-59-8
MAK III, category 2	
o-Aminoazotoluene	97-56-3
2-Amino-4-nitrotoluene	99-55-8
p-Chloroaniline	106-47-8
2,4-Diaminoanisole	615-05-4
4,4'-Diaminobiphenylmethane	101-77-9
3,3'-Dichlorobenzidine	91-94-1
3,3'-Dimethoxybenzidine	119-90-4
3,3'-Dimethylbenzidine	119-93-7
3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0
p-Cresidine	120-71-8
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4
4,4'-Oxydianiline	101-80-4
4,4'-Thiodianiline	139-65-1
o-Toluidine	95-53-4
2,4-Toluyldiamine	95-80-7
2,4,5-Trimethylaniline	137-17-7
o-Anisidine	90-04-0
2,4-Xylidine	95-68-1
2,6-Xylidine	87-62-7
4-Aminoazobenzene ¹⁵	60-09-3



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Meghmani
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G.I.D.C. Ind. Estate, Vatva
Ahmedabad - 382 445
India

23.01.2004

Test Report No. 800068-800080

General note: Copying this test report partially is permitted only in agreement with the contracted lab.
This report consists of 1 page.

Sample description: Samples No. 800068 - 800080
For more details see attachment of Meghmani Dyes and Intermediates Ltd.

Analysis of amines of the classes MAK III A1/III A2 and EG C1/C2 as cleavage products of azo dyes in textiles and leather samples, results in mg/kg

Operator K. Scharrer
Method § 35 LMBG B 82.02-2
Detection limit 30 mg/kg (0 - 100 mg/kg quantitative, > 100 mg/kg semi quantitative)

4-aminodiphenyl benzidine	n.d.	3,3'-dimethylbenzidine	n.d.
4-chloro-o-toluidine	n.d.	3,3'-dimethyl-4,4'-diaminodiphenylmethane	n.d.
2-naphthylamine	n.d.	p-cresidine	n.d.
p-chloraniline	n.d.	4,4'-methylen-bis-(2-chloraniline)	n.d.
2,4-diaminoaniline	n.d.	4,4'-oxydianiline	n.d.
4,4'-diaminodiphenylmethane	n.d.	4,4'-thiodianiline	n.d.
3,3'-dichlorbenzidine	n.d.	o-toluidine	n.d.
3,3'-dimethoxybenzidine	n.d.	2,4-toluyldiamine	n.d.
		2,4,5-trimethylaniline	n.d.

According to the analytical results all tested samples do not contain any azo dyes banned by German consumer goods ordinance.

Arylamine which will be added on first July 2002 to the list of banned amines:

o-anisidine	n.d.
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Porst & Partner GmbH
Umweltanalytik • Warenprüfung • Ingenieurleistung

K. Scharrer
Head of analytical department

Nach DIN EN 45001 durch die
DACH Deutsche Akkreditierungsstelle Chemie GmbH
akkreditiertes Prüflaboratorium
Die Akkreditierung gilt für die in der Urkunde
benannten Prüfarten und Prüfverfahren



GESCHÄFTSFÜHRER: KAY GRÖNHARDT, DR. JÜRGEN PORST, DR. RAINER SEBALD AMTSGERICHT FÜRTH HRB 5756

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