



BHIMANI Chemicals Pvt. Ltd.

Office – 510 “Mahakant”, Opp. V. S. Hospital, Ellisbridge, Ahmedabad – 380006 INDIA

Unit – Plot No 8-9-10 Sudama Industrial Estate, Nr. Narol Cross Roads, Narol, A’bad – 382405 INDIA

Phone – +91 79 26575474 E-Mail – bhavin@bhimanigroup.com Web – www.bhimanigroup.com

Product List

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BHIMAFIX REACTIVE DYES

BHIMAFIX “ME” Bifunctional Dyes

BHIMAZOL “VS” Vinyl Sulphone Base Dyes

BHIMAFIX “HE” High Exhaust Dyes

BHIMAFIX “BLACKS”

BHIMAFIX “P & H” Printing Dyes

BHIMAZOL “HD” Dyes

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BHIMADIRECT DIRECT DYES



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BHIMAFIX “ME” Bifunctional Dyes

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BHIMAFIX “ME” (Medium Exhaust) i.e. BIFUNCTIONAL Dyes are low temperature high exhaust Reactive Dyes suitable for Dyeing Padding and printing of all dyes of cellulosic material. These dyes offer high grade of all round fastness properties. They offer leveling properties and excellent alkalis stability. Fixation temperature of these dyes is 60^o-45^o C.

No.	Product Name	C.I. No.
1	BHIMAFIX GOLD. YELLOW MERL	YELLOW 145
2	BHIMAFIX YELLOW ME4GL	YELLOW 160
3	BHIMAFIX ORANGE ME2RL	ORANGE 122
4	BHIMAFIX RED ME3BL	RED 194
5	BHIMAFIX RED ME4BL	RED 195
6	BHIMAFIX NAVY BLUE ME2GL	BLUE 194
7	BHIMAFIX BLUE BRF	BLUE 221
8	BHIMAFIX NAVY BLUE BF	BLUE 222
9	BHIMAFIX RED ROSE MIX	RED ROSE
10	BHIMAFIX SCARLET MERK	SCARLET 111
11	BHIMAFIX YELLOW SPD	YELLOW SPD
12	BHIMAFIX RED SPD	RED SPD
13	BHIMAFIX NAVY SPD	NAVY SPD

BHIMAZOL “VS” Vinyl Sulphone Base Dyes

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BHIMAZOL “VS” (Vinyl Sulfone) DYES are B. SULPHATOETHYL SULPH ONE Reactive Dyes possessing Vinyl sulphone as the reactive group. In presence of alkali, these dyes chemically react with the hydroxyl group of cellulose and form firm, covalent linkages. These dyes are having very good features like, good solubility even in presence of alkali, very good fastness properties, can be applied both by exhaust & padding methods, possesses less affinity hence very good leveling property & suitable for resist & discharge printing very much effectively. These dyes are applied by exhaust method at the optimum temperature of 60-65 °C.

No.	Product Name	C.I. No.
1	BHIMAZOL YELLOW GR	YELLOW 15
2	BHIMAZOL YELLOW FG	YELLOW 42
3	BHIMAZOL ORANGE 3R	ORANGE 16
4	BHIMAZOL RED 5B	RED 35
5	BHIMAZOL RED BS	RED 111
6	BHIMAZOL RED RB	RED 198
7	BHIMAZOL TURQ. BLUE G 166%	BLUE 21
8	BHIMAZOL TURQ. BLUE G 266%	BLUE 21
9	BHIMAZOL BLUE BB	BLUE 220
10	BHIMAZOL VIOLET 5R	VIOLET 5
11	BHIMAZOL BROWN GR	BROWN 18



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BHIMAFIX “HE” High Exhaust Dyes

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BHIMACTIVE “HE” i.e. BIS MONO CHLOROTRIAZIN Dyes are Reactive Dyes for cellulosic material & are designed to give high fixation by exhaust dyeing methods when applied at the temperature 75°-90° C. HE dyes are suitable for dyeing cotton and other cellulosic materials. HE Dyes process significantly higher exhaustion & Fixation efficiency which result in appreciable cost reduction, in comparison to Conventional reactive dyes. Some advantages of HE Dyes have - Excellent compatibility, Good built up, Excellent Reproducibility, Wide Applicability & Outstanding built up and consistency

No.	Product Name	C.I. No.
1	BHIMAFIX YELLOW HE4G	YELLOW 81
2	BHIMAFIX GOLD. YELLOW HE4R	YELLOW 84
3	BHIMAFIX ORANGE HER	ORANGE 84
4	BHIMAFIX RED HE3B	RED 120
5	BHIMAFIX RED HE7B	RED 141

BHIMAFIX “BLACKS”

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BHIMACTIVE “BLACKS” are BLACK “ME”, “VS” AND BLACK “MIX”

No.	Product Name	C.I. No.
1	BHIMAZOL BLACK B 150%	BLACK 5
2	BHIMAZOL BLACK B 200%	BLACK 5
3	BHIMAZOL BLACK WNN	BLACK WNN
4	BHIMAFIX BLACK GDNN / GDRN	BLACK MIX
5	BHIMAFIX BLACK ED	BLACK MIX
6	BHIMAFIX BLACK RN	BLACK MIX
7	BHIMAFIX BLACK DN CONS	BLACK MIX
8	BHIMAFIX BLACK DR	BLACK MIX



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BHIMAFIX “P & H” Printing Dyes

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BHIMACTIVE “P & H” are PRINTING Dyes which are meant for Printing on Cellulose Textiles by both Dyeing as well as Printing Methods. These Dyes are MONO CHLOROTRIAZINE reactive dyes having a low reactivity and low substantivity. Since these dyes have low reactivity, they require more severe conditions for fixation with cellulosic materials. **BHIMACTIVE** “P & H” Series dyes react with cellulosic fiber in the presence of alkali and under the influence of heat. They are readily soluble by pouring water of 80-85 °C on powder and stirring well. This dyes contains very good fastness properties and suitable for printing cotton, viscose, cuprammonium rayons and natural silk.

No.	Product Name	C.I. No.
1	BHIMAFIX YELLOW P4G	YELLOW 18
2	BHIMAFIX BRILL. YELLOW P6GS	YELLOW 95
3	BHIMAFIX GOLD. YELLOW P3R	ORANGE 12
4	BHIMAFIX BRILL. ORANGE P2R	ORANGE 13
5	BHIMAFIX ORANGE P4R	ORANGE 35
6	BHIMAFIX RED PB	RED 24
7	BHIMAFIX RED P8B	RED 31
8	BHIMAFIX RED P2B	RED 45
9	BHIMAFIX RED P6B	RED 218
10	BHIMAFIX RED P4B	RED 245
11	BHIMAFIX RED P4BN	RED 3:1
12	BHIMAFIX BLUE P5R	BLUE 13
13	BHIMAFIX BLUE P3R	BLUE 49
14	BHIMAFIX TURQ. BLUE PA/HA	BLUE 71
15	BHIMAFIX GREEN P7G	GREEN 19
16	BHIMAFIX PURPLE P3R	VIOLET 1
17	BHIMAFIX NAVY MIX	NAVY BLUE MIX
18	BHIMAFIX BLACK HN/PN	BLACK 8
19	BHIMAFIX NAVY BLUE P2R	BLACK 39
20	BHIMAFIX BLACK PGR	BLACK MIX



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BHIMAZOL “HD” Dyes

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No.	Product Name
1	BHIMAZOL YELLOW S3R
2	BHIMAZOL ORANGE W3R
3	BHIMAZOL DEEP RED CD
4	BHIMAZOL NAVY BLUE WB
5	BHIMAZOL NAVY BLUE SG
6	BHIMAZOL SUPER BLACK G
7	BHIMAZOL SUPER BLACK R

BHIMAFIX “ED” Dyes

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No.	Product Name
1	BHIMAFIX YELLOW ED2G
2	BHIMAFIX ORANGE ED2R
3	BHIMAFIX RED ED
4	BHIMAFIX RED ED2B
5	BHIMAFIX ROYAL BLUE EDG
6	BHIMAFIX BLACK ED CONC.
7	BHIMAFIX BLACK EDG

BHIMAZOL “RGB” Dyes

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No.	Product Name
1	BHIMAZOL ULTRA YELLOW RGB
2	BHIMAZOL GOLD. YELLOW RGB
3	BHIMAZOL ULTRA RED RGB
4	BHIMAZOL CHERRY RED RGB
5	BHIMAZOL ULTRA CARMINE RGB
6	BHIMAZOL BLUE RGB
7	BHIMAZOL DEEP BLACK RGB
8	BHIMAZOL ULTRA DEEP BLACK RGB



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BHIMACID DYES

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No.	Product Name	C.I. No.
1	BHIMACID METANIL YELLOW G	YELLOW 36
2	BHIMACID FAST YELLOW MR	YELLOW 42
3	BHIMACID YELLOW 2GL	YELLOW 59
4	BHIMACID YELLOW 5GN	YELLOW 110
5	BHIMACID YELLOW S2G	YELLOW 220
6	BHIMACID ORANGE II	ORANGE 7
7	BHIMACID ORANGE 2GL	ORANGE 10
8	BHIMACID ORANGE YRX	ORANGE 67
9	BHIMACID ORANGE 2R	ORANGE 154
10	BHIMACID RED XB	RED 52
11	BHIMACID FAST RED A	RED 88
12	BHIMACID RED GR	RED 97
13	BHIMACID MAROON V	RED 119
14	BHIMACID RED 3BN	RED 131
15	BHIMACID RED GR	RED 183
16	BHIMACID PINK BE	RED 186
17	BHIMACID RED 249	RED 249
18	BHIMACID RED S-G	RED 315
19	BHIMACID RED 405	RED 405
20	BHIMACID VIOLET BNS	VIOLET 54
21	BHIMACID VIOLET MB	VIOLET 90
22	BHIMACID BLUE 5R	BLUE 113
23	BHIMACID BLUE 2G	BLUE 158
24	BHIMACID BLUE MTR	BLUE 193
25	BHIMACID BRILL GREEN G	GREEN 25
26	BHIMACID GREEN GBN	GREEN 68
27	BHIMACID OLIVE S-G	GREEN 73
28	BHIMACID BROWN GR	BROWN 14
29	BHIMACID BROWN BT	BROWN 106
30	BHIMACID BROWN G	BROWN 161
31	BHIMACID DARK BROWN SGR	BROWN 282
32	BHIMACID BROWN MBL	BROWN 355
33	BHIMACID BLACK GR	BLACK 172
34	BHIMACID BLACK MSRL	BLACK 194
35	BHIMACID BLACK N	BLACK 210
36	BHIMACID BLACK 234	BLACK 234



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BHIMACID DYES

BHIMACID DYES are water soluble anionic dyes which are used to dye protein fibers such as **Wool, Angora, Cashmere, and Silk**, as well the milk protein fiber called **Silk Latte**, the soy protein fiber called **Soy Silk**, and the synthetic polyamide fiber **Nylon**. Attachment to the fibre is attributed, at least partly, to salt formation between anionic groups in the dyes and cationic groups in the fibre. Water soluble Acid dyes are not substantive to cellulosic fibres.

Acid dyes sound scary to some novices, who imagine that the dyes themselves are caustic strong acids. In fact, the dyes are non-caustic, are in many cases non-toxic, and are named for the mild acid (such as vinegar) used in the dyeing process, and for the types of bonds they form to the fiber. Some of them are significantly more toxic than fiber reactive dyes, while others are even safe enough to eat, and are sold as food coloring.

According to Linda Knutson's *Synthetic Dyes for Natural Fibers*. Acid dyes fall into several classes:

1. Leveling acid or strong acid dye
2. Milling or weak acid dyes, and
3. Super milling or fast acid or neutral acid dyes.

Leveling Acid Dyes have been sold under the trade names of Kiton, Erio, Intracid, Sandolan, and Amacid, among others; they are also the acid dye component of all-purpose or union dyes such as Rit and Tintex, says Knutson. It's difficult now to find out which specific acid dyes fall into which of these dye classes, however. At least part of the reason is that the information is not always useful to the dyer

Most histological dyes are classified either as acid or as basic dyes. An acid dye exists as an anion (negatively charged) in solution, while a basic dye exists as a cation (positive charge).

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BHIMADIRECT DYES

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No	Product Name	C.I. No.
1	BHIMADIRECT PAPER YELLOW T	YELLOW 11
2	BHIMADIRECT CRY SOPHENINE G	YELLOW 12
3	BHIMADIRECT YELLOW 5GLL	YELLOW 44
4	BHIMADIRECT ORANGE SE	ORANGE 26
5	BHIMADIRECT ORANGE TGLL	ORANGE 39/34
6	BHIMADIRECT BORDEAUX 6B	RED 16
7	BHIMADIRECT FAST SCARLET 4 BS	RED 23
8	BHIMADIRECT RED 12B	RED 31
9	BHIMADIRECT RED 5 BL	RED 81
10	BHIMADIRECT LIGHT ROSE FR	RED 227
11	BHIMADIRECT BLUE GLL	BLUE 71
12	BHIMADIRECT TURQ. BLUE SBL	BLUE 86
13	BHIMADIRECT BLACK NBL	BLACK 22
14	BHIMADIRECT BLACK OB	BLACK 80
15	BHIMADIRECT BLACK B7	BLACK 155
16	BHIMADIRECT BLACK AR	BLACK 168



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BHIMADIRECT DYES

BHIMADIRECT DYES the name itself alludes to the fact that these dyes do not require any form of “fixing”. They are almost always azo dyes, with some similarities to acid dyes. They also have sulphonate functionality, but in this case, it is only to improve solubility, as the negative charges on dye and fibre will repel each other.

BHIMADIRECT DYES are water soluble substantive Direct Dyes which are used for the dyeing of cellulosic fibers. This group is recommended for exhaustion semi-continuous and continuous printing process. **BHIMADIRECT DYES** are included in the "E" group which is recommended for HT system too.

BHIMADIRECT DYES cover the entire shade gamut and are easy to apply. They have good leveling property and are cost effective. Certain dyestuffs within this range are suitable for high-temperature dyeing of cellulosic/polyester blends. In general, they may be applied on cotton by any method and most of the dyes in the range are even suitable for package dyeing of cotton yarn. The one advantage is that direct dyes may be more lightfast, that is, resistant to fading in the light, than fiber reactive dyes.

BHIMADIRECT DYES are used on cellulose fibers such as cotton, rayon, and linen. They lack the permanence of the cold water fiber reactive dyes which most serious dyers prefer for use on cellulose fibers, but in some cases they have advantages that make their use worthwhile.

BHIMADIRECT DYES can be used on

Application	Cellulose	Polyaide	Silk	Leather	Paper	PC blends
	✓	✓	✓	✓	✓	✓

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