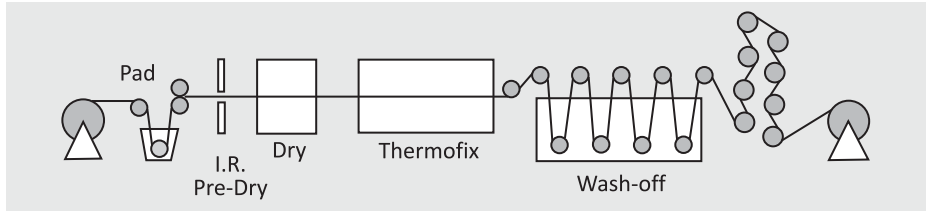


| Dye (g / l) | Soda Ash (g/l) |
|-------------|----------------|
| < 20        | 10             |
| >20         | 20             |

IR Pre-dry, Dry : 100-120°C, Steam : 2 mins at 102°C

Pad - Dry - Thermofix (Cotton)



Mixing pump required : Pad : dye, wetting agent, anti - migrant, mild oxidant, alkali.

| Dye (g /l) | Soda Ash (g/l) | Urea (g/l) |
|------------|----------------|------------|
| < 20       | 10             | 100        |
| 20 -50     | 15             | 150        |
| > 50       | 20             | 200        |

IR Pre-dry, Dry : 110 - 130°C  
Thermofix : 3 mins. at 160°C

Advantages

- Monochlorotrizine dyes having low substantivity.
- High performance dyes suitable for different processes.
- Wide range of shades for broad shade gamut.
- Good build up & reproducibility
- Good wash fastness levels
- Resistant to oxidative bleach damage

Key to Abbreviations

- ND = Non Dischargeable
- D = Dischargeable
- G = Good
- M = Medium
- F = Fair
- P = Poor
- S = Suitable
- NS = Non Suitable
- LS = Less Suitable
- L = Low (Reactivity)

*(The information contained in this SHADE CARD has been provided in good faith and to the best of our knowledge but WITHOUT WARRANTY. Consumers are requested to test the products as to their suitability for any application, use or processing.)*



MAHICKRA CHEMICALS LIMITED

AS/NZS ISO 9001:2015/ISO 9001:2015  
AS/NZS ISO 14001 :2015/ISO 14001:2015  
GOTS Certified Company

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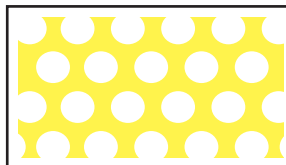
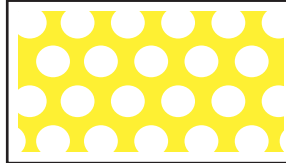
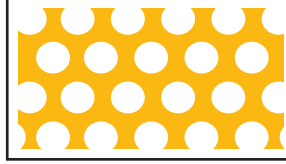
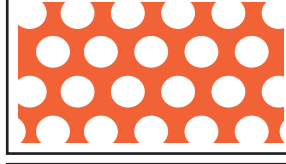
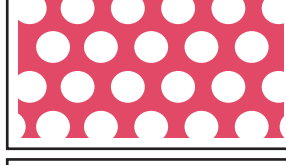
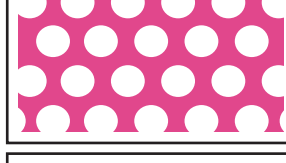




MAHICKRA CHEMICALS LIMITED



REACTIVE  
“P” DYES  
“Cynuric Hot Brand”

## REACTIVE DYES

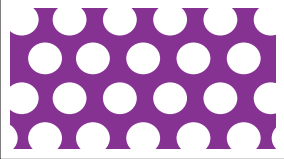


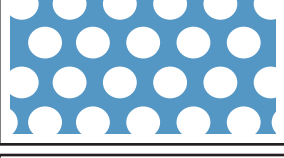
| 2%  | MAHKATIVE<br>'P' DYES<br>(Cynuric Hot Brand)<br>PRODUCT NAME (C.I. No.) | Solubility |                                | Application Method |                    | Substantivity | Day Light |     | Washing Fastness |        | Rubbing Fastness | Perspiration |        |        | Dischargeability<br>Hypochlorite Bleaching Fastness |      |       |        |       |        |       |
|---|---|------------|--------------------------------|--------------------|--------------------|---------------|-----------|-----|------------------|--------|------------------|--------------|--------|--------|---|------|-------|--------|-------|--------|-------|
|   |   | 30°C G/L   | ISO Dyes (1000)<br>Common Salt | Exhaust Dyeing     | Pad - Batch Dyeing |               | Printing  | 1/6 | 1/1              | ISO 3  |                  | ISO 4        |        | Alkali |   | Acid |       |        |       |        |       |
|   |   |            |                                |                    |                    |               |           |     |                  | Effect |                  | Stain        | Effect |        |   |      | Stain |        |       |        |       |
|   |   |            |                                |                    |                    |               |           |     |                  |        |                  |              |        |        |   |      |       | Effect | Stain | Effect | Stain |
|    | RE. YELLOW P6G<br>*Yellow 95  | 100        | 80                             | LS                 | LS                 | S             | L         | 5   | 5-6              | 5      | 4-5              | 4-5          | 4      | 4-5    | 4   | 4-5  | 4-5   | 4-5    | 5     | S      | 2     |
|    | RE. YELLOW P4G<br>*Yellow 18  | 70         | 60                             | LS                 | LS                 | S             | L         | 5   | 5-6              | 4-5    | 4-5              | 4-5          | 4      | 4-5    | 4   | 4-5  | 4-5   | 4-5    | 4-5   | G      | 1     |
|    | RE. GOL. YELLOW P3R<br>*Orange 12                                       | 100        | 80                             | S                  | LS                 | S             | M         | 5   | 5-6              | 5      | 5                | 4-5          | 4-5    | 5      | 4-5   | 5    | 5     | 4-5    | 4     | F      | 3     |
|    | RE. ORANGE P2R<br>*Orange 13  | 80         | 70                             | LS                 | LS                 | S             | M         | 3-4 | 5                | 5      | 5                | 4            | 4      | 4-5    | 4   | 4-5  | 5     | 4-5    | 4     | F      | 4W    |
|    | RE. SCARLET PRR<br>***  | 120        | 90                             | LS                 | LS                 | S             | L         | 5   | 5-6              | 4      | 4-5              | 5            | 4      | 4-5    | 4   | 5    | 4     | 5      | 5     | S      | 2     |
|   | RE. RED P2B<br>*Red 45  | 130        | 100                            | LS                 | LS                 | S             | M         | 4-5 | 4-5              | 4-5    | 5                | 4-5          | 4-5    | 5      | 4-5   | 4    | 4-5   | 4      | 4-5   | F      | 4-5   |
|  | RE. RED PB<br>*Red 24   | 130        | 100                            | LS                 | LS                 | S             | M         | 4-5 | 4-5              | 4-5    | 5                | 5            | 5      | 5      | 4-5   | 5    | 4-5   | 5      | 5     | F      | 4     |
|  | RE. RED P6B<br>*Red 218   | 130        | 90                             | LS                 | LS                 | S             | L         | 5   | 5                | 4      | 4-5              | 5            | 4      | 4-5    | 4   | 5    | 4     | 5      | 6     | S      | 3     |
|  | RE. RED P8B<br>*Red 31  | 75         | 50                             | LS                 | LS                 | S             | H         | 3   | 4-5              | 4-5    | 5                | 4            | 5      | 5      | 4   | 4    | 3-4   | 5      | 4-5   | P      | 3-4   |
|  | RE. RED P4B<br>*Red 245   | 80         | 90                             | LS                 | S                  | S             | H         | 3   | 4-5              | 4      | 4-5              | 4            | 4-5    | 4-5    | 3-4   | 4-5  | 4-5   | 4-5    | 5     | P      | 3-4   |

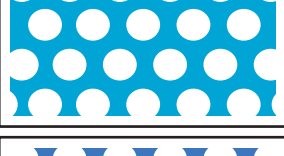
## REACTIVE DYES

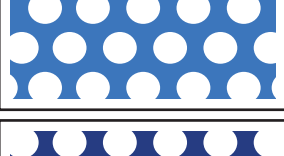



|    |   |  |                    |                    |          |               |           |     |                  |       |                  |       |              |     |   |      |        |       |        |       |
|----|---|--|--------------------|--------------------|----------|---------------|-----------|-----|------------------|-------|------------------|-------|--------------|-----|---|------|--------|-------|--------|-------|
| 2% | <b>MAHKTIVE</b><br><b>'P' DYES</b><br><b>(Cynuric Hot Brand)</b><br>PRODUCT NAME (C.I. No.) | Solubility   | Application Method |                    |          |               | Day Light |     | Washing Fastness |       | Rubbing Fastness |       | Perspiration |     | Dischargeability<br>Thyochlorite Bleaching Fastness |      |        |       |        |       |
|    |   | 30° C G/L<br><small>(ISO Order 1000)<br/>Common Salt</small> | Exhaust Dyeing     | Pad - Batch Dyeing | Printing | Substantivity | 1/6       | 1/1 | ISO 3            |       | ISO 4            |       | Alkali       |     |   | Acid |        |       |        |       |
|    |   |  |                    |                    |          |               |           |     | Effect           | Stain | Effect           | Stain | Dry          | Wet |   |      | Effect | Stain | Effect | Stain |
|    |   |  |                    |                    |          |               |           |     |                  |       |                  |       |              |     |   |      |        |       |        |       |
| 65 | 50  | LS   | LS                 | S                  | M        | 4             | 5         | 5   | 5                | 4     | 4-5              | 4     | 4            | 5   | 4   | P    | 3-4    |       |        |       |


|   |                              |    |    |    |    |   |   |   |   |   |   |   |     |   |   |   |   |   |     |
|---|------------------------------|----|----|----|----|---|---|---|---|---|---|---|-----|---|---|---|---|---|-----|
|  | RE. MAGENTA PB<br>*Violet 26 | 65 | 50 | LS | LS | S | M | 4 | 5 | 5 | 5 | 4 | 4-5 | 4 | 4 | 5 | 4 | P | 3-4 |
|---|------------------------------|----|----|----|----|---|---|---|---|---|---|---|-----|---|---|---|---|---|-----|


|   |                             |     |    |    |    |   |   |   |   |   |     |   |   |     |   |   |   |   |   |   |
|---|-----------------------------|-----|----|----|----|---|---|---|---|---|-----|---|---|-----|---|---|---|---|---|---|
|  | RE. PURPLE P3R<br>*Violet 1 | 100 | 80 | LS | LS | S | L | 5 | 4 | 4 | 4-5 | 5 | 4 | 4-5 | 4 | 5 | 4 | 5 | S | 3 |
|---|-----------------------------|-----|----|----|----|---|---|---|---|---|-----|---|---|-----|---|---|---|---|---|---|


|   |                          |    |    |    |    |   |   |   |   |     |   |   |   |     |   |   |   |   |   |   |
|---|--------------------------|----|----|----|----|---|---|---|---|-----|---|---|---|-----|---|---|---|---|---|---|
|  | RE. BLUE PGR<br>*Blue 72 | 90 | 75 | LS | LS | S | M | 4 | 4 | 4-5 | 4 | 4 | 4 | 3-4 | 4 | 5 | 4 | 4 | G | 4 |
|---|--------------------------|----|----|----|----|---|---|---|---|-----|---|---|---|-----|---|---|---|---|---|---|


|   |                                |    |    |    |    |   |   |   |   |   |     |   |     |     |   |   |     |   |     |   |   |
|---|--------------------------------|----|----|----|----|---|---|---|---|---|-----|---|-----|-----|---|---|-----|---|-----|---|---|
|  | RE. TURQ. BLUE P5G<br>*Blue 25 | 50 | 35 | LS | LS | S | H | 4 | 5 | 5 | 4-5 | 4 | 4-5 | 4-5 | 4 | 3 | 3-4 | 4 | 3-4 | P | 3 |
|---|--------------------------------|----|----|----|----|---|---|---|---|---|-----|---|-----|-----|---|---|-----|---|-----|---|---|

|  |                          |     |    |    |    |   |   |   |   |   |     |   |   |     |   |   |   |   |   |   |   |
|--|--------------------------|-----|----|----|----|---|---|---|---|---|-----|---|---|-----|---|---|---|---|---|---|---|
|  | RE. BLUE P3R<br>*Blue 49 | 100 | 90 | LS | LS | S | L | 5 | 4 | 6 | 4-5 | 5 | 4 | 3-4 | 4 | 5 | 4 | 5 | 5 | S | 5 |
|--|--------------------------|-----|----|----|----|---|---|---|---|---|-----|---|---|-----|---|---|---|---|---|---|---|

|   |                          |    |    |    |    |   |   |   |     |   |     |   |     |   |     |   |     |   |     |   |   |
|---|--------------------------|----|----|----|----|---|---|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|---|
|  | RE. BLUE P5R<br>*Blue 13 | 80 | 60 | LS | LS | S | M | 4 | 4-5 | 4 | 4-5 | 5 | 4-5 | 5 | 4-5 | 4 | 3-4 | 4 | 4-5 | P | 2 |
|---|--------------------------|----|----|----|----|---|---|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|---|

|   |                               |    |    |    |    |   |   |   |     |   |   |     |   |   |   |   |   |     |     |   |   |
|---|-------------------------------|----|----|----|----|---|---|---|-----|---|---|-----|---|---|---|---|---|-----|-----|---|---|
|  | RE. NAVY BLUE P2R<br>*Blue 59 | 70 | 70 | LS | LS | S | M | 4 | 4-5 | 4 | 5 | 4-5 | 5 | 4 | 3 | 4 | 5 | 3-4 | 4-5 | L | 2 |
|---|-------------------------------|----|----|----|----|---|---|---|-----|---|---|-----|---|---|---|---|---|-----|-----|---|---|

|   |                           |    |    |    |    |   |   |   |   |     |   |   |   |     |   |   |     |   |   |   |   |
|---|---------------------------|----|----|----|----|---|---|---|---|-----|---|---|---|-----|---|---|-----|---|---|---|---|
|  | RE. BROWN P4R<br>*Brown 9 | 80 | 60 | LS | LS | S | L | 4 | 5 | 4-5 | 5 | 4 | 4 | 4-5 | 4 | 4 | 4-5 | 4 | 4 | F | 4 |
|---|---------------------------|----|----|----|----|---|---|---|---|-----|---|---|---|-----|---|---|-----|---|---|---|---|

|   |                          |     |     |    |    |   |   |     |     |   |     |   |   |   |   |     |   |     |   |   |     |
|---|--------------------------|-----|-----|----|----|---|---|-----|-----|---|-----|---|---|---|---|-----|---|-----|---|---|-----|
|  | RE. BLACK PN<br>*Black 8 | 125 | 100 | LS | LS | S | M | 4-5 | 4-5 | 5 | 4-5 | 4 | 4 | 5 | 4 | 4-5 | 4 | 4-5 | 4 | P | 4-5 |
|---|--------------------------|-----|-----|----|----|---|---|-----|-----|---|-----|---|---|---|---|-----|---|-----|---|---|-----|

|   |                            |     |     |    |    |   |   |     |     |   |     |   |   |   |   |     |   |     |   |   |     |
|---|----------------------------|-----|-----|----|----|---|---|-----|-----|---|-----|---|---|---|---|-----|---|-----|---|---|-----|
|  | RE. BLACK PGR<br>*Black 39 | 125 | 100 | LS | LS | S | M | 4-5 | 4-5 | 5 | 4-5 | 4 | 4 | 5 | 4 | 4-5 | 4 | 4-5 | 4 | P | 4-5 |
|---|----------------------------|-----|-----|----|----|---|---|-----|-----|---|-----|---|---|---|---|-----|---|-----|---|---|-----|

## REACTIVE “P” DYES “Cynuric Hot Brand”

## "P" & "H" Printing Dyes

“P & H” are PRINTING Dye 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. “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. The dyes contains very good fastness properties and suitable for printing cotton, viscose, cuprammonium rayons and natural silk.

## Printing Processes

## Print - Silicate

| Dye                        | X parts  |
|----------------------------|----------|
| Urea                       | 50 - 100 |
| Water                      | Y parts  |
| Sodium Alginate Paste (6%) | 500      |
| Stock                      | 1000     |

Print - Dry - Pad Silicate (95<sup>0</sup> - 100<sup>0</sup> TW)

Batch 16 hrs

**Print - Dry - Steam / Print - Dry - Bake**

| Substrate Cotton           | Viscose |           |
|----------------------------|---------|-----------|
| Dye                        | X parts | X parts   |
| Urea                       | 50 -100 | 100 - 200 |
| Water                      | Y parts | Y parts   |
| Sodium Alginate Paste (6%) | 500     | 500       |
| Resist Salt                | 10      | 10        |
| Sodium bicarbonate or      | 10 - 30 | 10 - 30   |
| Sodium carbonate           | 8 - 20  | 8 -20     |
| Stock                      | 1000    | 1000      |

### Bicarbonate & Urea requirement

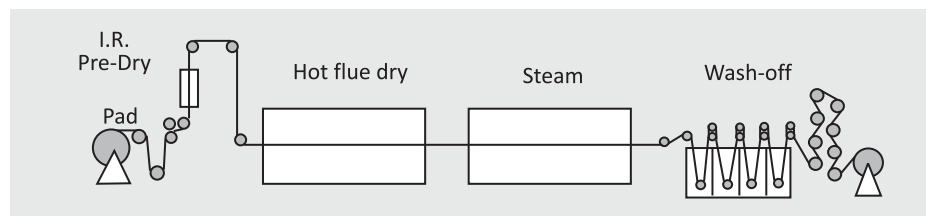
| Dye (g / kg)                |    | 1 - 10 | 11 - 30 | 31 - 40 | >40 |
|-----------------------------|----|--------|---------|---------|-----|
| Sodium Bicarbonate (g / kg) |    | 10     | 15      | 25      | 30  |
| Urea (g / kg)               | CO | 50     | 70      | 80      | 100 |
|                             | CV | 100    | 140     | 170     | 200 |

Print - Dry - Steam for 7 to 10 min at 102° - 100°C

or

Print - Dry - Bake 1 - 5 min at 200° - 150°C (Process not suitable for Viscose)

### Pad - Dry - Steam (Cotton & Viscose)



Mixing pump required : Pad : dye, wetting agent, anti - migrant, mild oxidant, alkali  
Add Urea to improve solubility.