



**Cinipol™** Colorant Solutions  
for Plastics





The **Cinipol** portfolio of dyes consists of high quality, high purity, transparent, FDA compliant and highly durable products for use in the plastics industry. The key features of this range are high heat stability, outstanding brilliance, high color strength, excellent light fastness, weather fastness, and migration resistance.

The **Cinipol** product line covers a broad range of colorants with attractive shades for a wide variety of applications in Automotive, Traffic, Packaging, Construction, and Household. A selected number of products, with good heat stability and sublimation resistance, also satisfy the demanding requirements of the spin-dyeing fiber industry. This portfolio is fully compliant with REACH and other regulatory requirements of the global market and offers eco-friendly and sustainable solutions to the spin-dyeing fiber industry.

Whatever your plastic application, there is always a **Cinipol** solution for you.

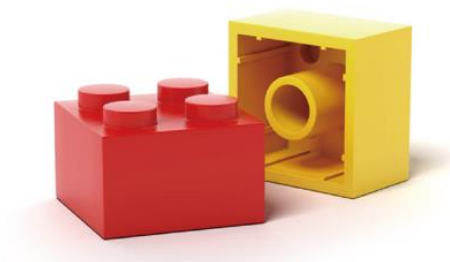


## PRODUCT RANGE

Cinipol<sup>®</sup> Products in Polystyrene

Full Shade (0.05%) + 1.0% TiO<sub>2</sub> (1/3 ISD\*)

| Product Name                                                                                                                                           | Chemical Class | Color Index        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|  <p>Cinipol<sup>®</sup> Yellow DY1P (0.16% + 1%TiO<sub>2</sub>)</p>   | Methine        | Solvent Yellow 145 |
|  <p>Cinipol<sup>®</sup> Yellow DY2P (0.24% + 1%TiO<sub>2</sub>)</p>   | Methine        | Solvent Yellow 179 |
|  <p>Cinipol<sup>®</sup> Yellow DY3P (0.10% + 1%TiO<sub>2</sub>)</p>   | Methine        | Solvent Yellow 93  |
|  <p>Cinipol<sup>®</sup> Yellow DY4P (0.12% + 1%TiO<sub>2</sub>)</p>   | Anthraquinone  | Solvent Yellow 189 |
|  <p>Cinipol<sup>®</sup> Yellow DY5P (0.29% + 1%TiO<sub>2</sub>)</p>  | Anthraquinone  | Pigment Yellow 147 |
|  <p>Cinipol<sup>®</sup> Yellow DY6P (0.09% + 1%TiO<sub>2</sub>)</p> | Anthraquinone  | Solvent Yellow 163 |



## PRODUCT RANGE

Cinipol<sup>™</sup> Products in Polystyrene

Full Shade (0.05%) + 1.0% TiO<sub>2</sub> (1/3 ISD\*)

| Product Name                                                                                                                                         | Chemical Class | Color Index        |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|  <p>Cinipol<sup>™</sup> Orange DJ2P (0.14% + 1%TiO<sub>2</sub>)</p> | Perinone       | Solvent Orange 60  |
|  <p>Cinipol<sup>™</sup> Orange DJ3P (0.08% + 1%TiO<sub>2</sub>)</p> | Monoazo        | Solvent Orange 105 |
|  <p>Cinipol<sup>™</sup> Red DR1P (0.15% + 1%TiO<sub>2</sub>)</p>    | Perinone       | Solvent Red 179    |
|  <p>Cinipol<sup>™</sup> Red DR2P (0.18% + 1%TiO<sub>2</sub>)</p>    | Perinone       | Solvent Red 135    |
|  <p>Cinipol<sup>™</sup> Red DR3P (0.10% + 1%TiO<sub>2</sub>)</p>   | Aminoketone    | Solvent Red 180    |
|  <p>Cinipol<sup>™</sup> Red DR4P (0.19% + 1%TiO<sub>2</sub>)</p>  | Anthraquinone  | Solvent Red 227    |

## PRODUCT RANGE

Cinipol<sup>®</sup> Products in Polystyrene

Full Shade (0.05%) + 1.0% TiO<sub>2</sub> (1/3 ISD\*)

| Product Name                                                                                                                                           | Chemical Class | Color Index        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
|  <p>Cinipol<sup>®</sup> Red DR5P (0.17% + 1%TiO<sub>2</sub>)</p>      | Anthraquinone  | Solvent Red 207    |
|  <p>Cinipol<sup>®</sup> Red DR6P (0.15% + 1%TiO<sub>2</sub>)</p>      | Anthrapyridone | Solvent Red 149    |
|  <p>Cinipol<sup>®</sup> Red DR7P (0.09% + 1%TiO<sub>2</sub>)</p>      | Anthrapyridone | Solvent Red 52     |
|  <p>Cinipol<sup>®</sup> Violet DV1P (0.09% + 1%TiO<sub>2</sub>)</p>   | Anthraquinone  | Solvent Violet 59  |
|  <p>Cinipol<sup>®</sup> Violet DV2P (0.16% + 1%TiO<sub>2</sub>)</p>  | Anthraquinone  | Solvent Violet 37  |
|  <p>Cinipol<sup>®</sup> Violet DV3P (0.11% + 1%TiO<sub>2</sub>)</p> | Anthraquinone  | Disperse Violet 57 |
|  <p>Cinipol<sup>®</sup> Violet DV4P (0.08% + 1%TiO<sub>2</sub>)</p> | Anthraquinone  | Solvent Violet 13  |

\* ISD: International Standard Depth

## Heat and Sublimation Resistance

| Product Name                     | Sublimation Temperature (°C) | PET                                             |                      | PMMA                                            |                      |
|----------------------------------|------------------------------|-------------------------------------------------|----------------------|-------------------------------------------------|----------------------|
|                                  |                              | % Concentration + 1% TiO <sub>2</sub> (1/3 ISD) | Heat Resistance (°C) | % Concentration + 1% TiO <sub>2</sub> (1/3 ISD) | Heat Resistance (°C) |
| Cinipcl <sup>®</sup> Yellow DY1P | 320                          | 0.140%                                          | 300                  | 0.160%                                          | 280                  |
| Cinipcl <sup>®</sup> Yellow DY2P | 340                          | 0.100%                                          | 300                  | 0.070%                                          | 300                  |
| Cinipcl <sup>®</sup> Yellow DY3P | 289                          | 0.090%                                          | 280                  | 0.120%                                          | 300                  |
| Cinipcl <sup>®</sup> Yellow DY4P | 374                          | 0.090%                                          | 280                  | 0.130%                                          | 280                  |
| Cinipcl <sup>®</sup> Yellow DY5P | –                            | 0.260%                                          | 310                  | 0.230%                                          | 280                  |
| Cinipcl <sup>®</sup> Yellow DY6P | 368                          | 0.070%                                          | 290                  | 0.100%                                          | 280                  |
| Cinipcl <sup>®</sup> Orange DJ2P | 273                          | 0.119%                                          | 310                  | 0.150%                                          | 300                  |
| Cinipcl <sup>®</sup> Orange DJ3P | 315                          | 0.064%                                          | 280                  | 0.090%                                          | 280                  |
| Cinipcl <sup>®</sup> Red DR1P    | 350                          | 0.113%                                          | 320                  | 0.155%                                          | 300                  |
| Cinipcl <sup>®</sup> Red DR2P    | 368                          | 0.160%                                          | 310                  | 0.240%                                          | 300                  |
| Cinipcl <sup>®</sup> Red DR3P    | 362                          | 0.090%                                          | 280                  | 0.100%                                          | 280                  |
| Cinipcl <sup>®</sup> Red DR4P    | 260                          | 0.175%                                          | 300                  | 0.190%                                          | 300                  |
| Cinipcl <sup>®</sup> Red DR5P    | 337                          | 0.140%                                          | 300                  | 0.160%                                          | 300                  |
| Cinipcl <sup>®</sup> Red DR6P    | 336                          | 0.155%                                          | 290                  | 0.160%                                          | 300                  |
| Cinipcl <sup>®</sup> Red DR7P    | 375                          | 0.080%                                          | 300                  | 0.100%                                          | 300                  |
| Cinipcl <sup>®</sup> Violet DV1P | 330                          | 0.084%                                          | 260                  | –                                               | –                    |
| Cinipcl <sup>®</sup> Violet DV2P | 354                          | –                                               | –                    | 0.160%                                          | 280                  |
| Cinipcl <sup>®</sup> Violet DV3P | 316                          | 0.095%                                          | 300                  | 0.120%                                          | 260                  |
| Cinipcl <sup>®</sup> Violet DV4P | 281                          | 0.065%                                          | 290                  | 0.085%                                          | 300                  |

### Polymers and TiO<sub>2</sub> used in testing are:

- PET: Selar<sup>®</sup> PT 2251 (DuPont)
- PMMA: Plexiglas<sup>®</sup> 7H (RÖHM)
- PC: Makrolon<sup>®</sup> 2800 (Covestro)
- ABS: Terluran<sup>®</sup> 877M (BASF)
- PS: Polyrex<sup>®</sup> PG-33 (Chimei)
- PA6: Durethan<sup>®</sup> B30S (Lanxess)
- PA66: Zytel<sup>®</sup> 101L (DuPont)
- TiO<sub>2</sub>: Kronos<sup>®</sup> 2220 (Kronos)

| PC                                                 |                         | ABS                                                |                         | PS                                                 |                         | PA6/PA66                                           |                         |
|----------------------------------------------------|-------------------------|----------------------------------------------------|-------------------------|----------------------------------------------------|-------------------------|----------------------------------------------------|-------------------------|
| % Concentration<br>+ 1% TiO <sub>2</sub> (1/3 ISD) | Heat Resistance<br>(°C) | % Concentration<br>+ 4% TiO <sub>2</sub> (1/3 ISD) | Heat Resistance<br>(°C) | % Concentration<br>+ 2% TiO <sub>2</sub> (1/3 ISD) | Heat Resistance<br>(°C) | % Concentration<br>+ 1% TiO <sub>2</sub> (1/3 ISD) | Heat Resistance<br>(°C) |
| 0.160%                                             | 300                     | 0.625%                                             | 280                     | 0.320%                                             | 300                     | 0.150%                                             | 280/-                   |
| 0.070%                                             | 350                     | 0.165%                                             | 260                     | 0.360%                                             | 300                     | -                                                  | -                       |
| 0.120%                                             | 350                     | -                                                  | -                       | 0.200%                                             | 300                     | -                                                  | -                       |
| 0.120%                                             | 300                     | 0.460%                                             | 280                     | 0.240%                                             | 280                     | 0.120%                                             | 280                     |
| 0.380%                                             | 320                     | 1.200%                                             | 260                     | 0.580%                                             | 280                     | 0.340%                                             | 290/-                   |
| 0.090%                                             | 350                     | 0.364%                                             | 300                     | 0.180%                                             | 300                     | -                                                  | -                       |
| 0.155%                                             | 350                     | 0.560%                                             | 280                     | 0.280%                                             | 300                     | 0.150%                                             | 310/-                   |
| 0.085%                                             | 300                     | 0.340%                                             | 280                     | 0.160%                                             | 280                     | -                                                  | -                       |
| 0.155%                                             | 350                     | 0.580%                                             | 300                     | 0.300%                                             | 300                     | 0.140%                                             | 300                     |
| 0.230%                                             | 340                     | 0.910%                                             | 300                     | 0.400%                                             | 300                     | 0.190%                                             | 300/-                   |
| 0.100%                                             | 300                     | 0.405%                                             | 280                     | 0.200%                                             | 280                     | -                                                  | -                       |
| 0.190%                                             | 320                     | 0.755%                                             | 300                     | 0.380%                                             | 300                     | -                                                  | -                       |
| 0.170%                                             | 320                     | 0.694%                                             | 300                     | 0.340%                                             | 300                     | -                                                  | -                       |
| 0.163%                                             | 350                     | 0.612%                                             | 280                     | 0.300%                                             | 300                     | 0.160%                                             | 280                     |
| 0.100%                                             | 300                     | 0.390%                                             | 300                     | 0.195%                                             | 280                     | 0.100%                                             | 300                     |
| 0.094%                                             | 300                     | 0.400%                                             | 280                     | 0.180%                                             | 300                     | -                                                  | -                       |
| -                                                  | -                       | 0.655%                                             | 300                     | 0.320%                                             | 300                     | -                                                  | -                       |
| 0.120%                                             | 300                     | 0.480%                                             | 280                     | 0.240%                                             | 280                     | -                                                  | -                       |
| 0.085%                                             | 350                     | 0.370%                                             | 280                     | 0.180%                                             | 300                     | -                                                  | -                       |

# Fastness and Migration Resistance

| Product Name                     | PET                                             |                | PMMA                                            |                |                                               |                                 |
|----------------------------------|-------------------------------------------------|----------------|-------------------------------------------------|----------------|-----------------------------------------------|---------------------------------|
|                                  | % Concentration + 1% TiO <sub>2</sub> (1/3 ISD) | Light Fastness | % Concentration + 1% TiO <sub>2</sub> (1/3 ISD) | Light Fastness | Weather Fastness Transparent 0.05% (3000 hrs) | Migration Transparent 0.05% dye |
| Cinipcl <sup>®</sup> Yellow DY1P | 0.140%                                          | 6              | 0.160%                                          | 6              | 3-4                                           | 4-5                             |
| Cinipcl <sup>®</sup> Yellow DY2P | 0.100%                                          | 6              | 0.070%                                          | 6-7            | 3-4                                           | 4-5                             |
| Cinipcl <sup>®</sup> Yellow DY3P | 0.090%                                          | 7              | 0.120%                                          | 6-7            | 5<br>/-                                       | 5                               |
| Cinipcl <sup>®</sup> Yellow DY4P | 0.090%                                          | 7              | 0.130%                                          | 7              | 4                                             | 5                               |
| Cinipcl <sup>®</sup> Yellow DY5P | 0.260%                                          | 7              | 0.230%                                          | 7              | 3-4                                           | 5                               |
| Cinipcl <sup>®</sup> Yellow DY6P | 0.070%                                          | 8              | 0.100%                                          | 7-8            | 5                                             | 5                               |
| Cinipcl <sup>®</sup> Orange DJ2P | 0.119%                                          | 7-8            | 0.150%                                          | 7-8            | 4-5<br>/-                                     | 5                               |
| Cinipcl <sup>®</sup> Orange DJ3P | 0.064%                                          | 6-7            | 0.090%                                          | 6-7            | 3-4                                           | 4-5                             |
| Cinipcl <sup>®</sup> Red DR1P    | 0.113%                                          | 3-4            | 0.155%                                          | 4              | 2-3                                           | 4-5                             |
| Cinipcl <sup>®</sup> Red DR2P    | 0.160%                                          | 7              | 0.240%                                          | 7              | 4-5                                           | 5                               |
| Cinipcl <sup>®</sup> Red DR3P    | 0.090%                                          | 6              | 0.100%                                          | 6              | 3                                             | 4-5                             |
| Cinipcl <sup>®</sup> Red DR4P    | 0.175%                                          | 6-7            | 0.190%                                          | 6-7            | 3-4<br>/-                                     | 4-5                             |
| Cinipcl <sup>®</sup> Red DR5P    | 0.140%                                          | 6-7            | 0.160%                                          | 6-7            | 3-4                                           | 4-5                             |
| Cinipcl <sup>®</sup> Red DR6P    | 0.155%                                          | 2              | 0.160%                                          | 2              | 1                                             | 4-5                             |
| Cinipcl <sup>®</sup> Red DR7P    | 0.080%                                          | 6-7            | 0.100%                                          | 7              | 4-5                                           | 5                               |
| Cinipcl <sup>®</sup> Violet DV1P | 0.084%                                          | 6              | -                                               | -              | -                                             | -                               |
| Cinipcl <sup>®</sup> Violet DV2P | -                                               | -              | 0.160%                                          | 6-7            | 3-4                                           | 4-5                             |
| Cinipcl <sup>®</sup> Violet DV3P | 0.095%                                          | 6-7            | 0.120%                                          | 6              | 3-4                                           | 5                               |
| Cinipcl <sup>®</sup> Violet DV4P | 0.065%                                          | 7-8            | 0.085%                                          | 6-7            | 3-4                                           | 5                               |

## Polymers and TiO<sub>2</sub> used in testing are:

- PET: Selar<sup>®</sup> PT 2251 (DuPont)
- PMMA: Plexiglas<sup>®</sup> 7H (RÖHM)
- PC: Makrolon<sup>®</sup> 2800 (Covestro)
- PS: Polyrex<sup>®</sup> PG-33 (Chimei)
- TiO<sub>2</sub>: Kronos<sup>®</sup> 2220 (Kronos)

| PC                                                 |                |                                                     |                                       | PS                                                 |                |                                                     |                                       |
|----------------------------------------------------|----------------|-----------------------------------------------------|---------------------------------------|----------------------------------------------------|----------------|-----------------------------------------------------|---------------------------------------|
| % Concentration<br>+ 1% TiO <sub>2</sub> (1/3 ISD) | Light Fastness | Weather Fastness<br>Transparent 0.05%<br>(3000 hrs) | Migration<br>Transparent<br>0.05% dye | % Concentration<br>+ 2% TiO <sub>2</sub> (1/3 ISD) | Light Fastness | Weather Fastness<br>Transparent 0.05%<br>(3000 hrs) | Migration<br>Transparent<br>0.05% dye |
| 0.160%                                             | 6              | 3-4                                                 | 4-5                                   | 0.320%                                             | 5              | 3                                                   | 4-5                                   |
| 0.070%                                             | 7              | 4                                                   | 4-5                                   | 0.360%                                             | 6-7            | 3-4                                                 | 4-5                                   |
| 0.120%                                             | 7              | 4                                                   | 5                                     | 0.200%                                             | 6-7            | 4                                                   | 4                                     |
| 0.120%                                             | 7              | 4-5                                                 | 5                                     | 0.240%                                             | 7              | 4                                                   | 5                                     |
| 0.380%                                             | 7              | 4                                                   | 5                                     | 0.580%                                             | 6-7            | 3                                                   | 5                                     |
| 0.090%                                             | 8              | 4-5                                                 | 5                                     | 0.180%                                             | 7              | 4                                                   | 5                                     |
| 0.155%                                             | 7-8            | 4                                                   | 5                                     | 0.280%                                             | 7              | 4                                                   | 4                                     |
| 0.085%                                             | 6-7            | 4                                                   | 4-5                                   | 0.160%                                             | 6-7            | 3-4                                                 | 4-5                                   |
| 0.155%                                             | 5              | 2-3                                                 | 4-5                                   | 0.300%                                             | 4-5            | 2                                                   | 4-5                                   |
| 0.230%                                             | 7              | 4-5                                                 | 5                                     | 0.400%                                             | 6              | 4                                                   | 5                                     |
| 0.100%                                             | 6              | 3-4                                                 | 4-5                                   | 0.200%                                             | 6              | 3                                                   | 4-5                                   |
| 0.190%                                             | 6-7            | 3-4                                                 | 4-5                                   | 0.380%                                             | 6-7            | 3-4                                                 | 4-5                                   |
| 0.170%                                             | 6-7            | 4                                                   | 4-5                                   | 0.340%                                             | 7-8            | 3-4                                                 | 4-5                                   |
| 0.163%                                             | 2              | 1                                                   | 4-5                                   | 0.300%                                             | 1-2            | 1                                                   | 4-5                                   |
| 0.100%                                             | 4-5            | 4-5                                                 | 5                                     | 0.195%                                             | 3-4            | 4                                                   | 2                                     |
| 0.094%                                             | 6-7            | 3-4                                                 | 4-5                                   | 0.180%                                             | 6              | 3-4                                                 | 4-5                                   |
| -                                                  | -              | -                                                   | -                                     | 0.320%                                             | 6-7            | 3-4                                                 | 4-5                                   |
| 0.120%                                             | 6-7            | 4-5                                                 | 4                                     | 0.240%                                             | 4-5            | 4                                                   | 3                                     |
| 0.085%                                             | 6-7            | 4-5                                                 | 5                                     | 0.180%                                             | 5-6            | 4                                                   | 4-5                                   |

## Recommended Applications

| Product Name                     | PET | PBT | PS | HIPS | ABS | PC | PMMA | POM | SAN | PA 66/PA 6 | PES Fiber |
|----------------------------------|-----|-----|----|------|-----|----|------|-----|-----|------------|-----------|
| Cinipcl <sup>®</sup> Yellow DY1P | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | -/○        | ○         |
| Cinipcl <sup>®</sup> Yellow DY2P | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | -          | ○         |
| Cinipcl <sup>®</sup> Yellow DY3P | ●   | ○   | ●  | ●    | -   | ●  | ●    | -   | ●   | -          | -         |
| Cinipcl <sup>®</sup> Yellow DY4P | ●   | ○   | ●  | ○    | ○   | ●  | ●    | ○   | ●   | ○          | ●         |
| Cinipcl <sup>®</sup> Yellow DY5P | ●   | ○   | ●  | ○    | ●   | ●  | ●    | ○   | ●   | -/○        | ●         |
| Cinipcl <sup>®</sup> Yellow DY6P | ●   | ●   | ●  | ●    | ●   | ●  | ●    | ●   | ●   | -          | ●         |
| Cinipcl <sup>®</sup> Orange DJ2P | ●   | ○   | ●  | ○    | ●   | ●  | ●    | ○   | ●   | -/○        | ○         |
| Cinipcl <sup>®</sup> Orange DJ3P | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | -          | ○         |
| Cinipcl <sup>®</sup> Red DR1P    | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | ●          | ○         |
| Cinipcl <sup>®</sup> Red DR2P    | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | -/○        | ●         |
| Cinipcl <sup>®</sup> Red DR3P    | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | -          | ○         |
| Cinipcl <sup>®</sup> Red DR4P    | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | -          | ○         |
| Cinipcl <sup>®</sup> Red DR5P    | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | -          | ●         |
| Cinipcl <sup>®</sup> Red DR6P    | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | ●          | ○         |
| Cinipcl <sup>®</sup> Red DR7P    | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | ●          | ○         |
| Cinipcl <sup>®</sup> Violet DV1P | ○   | ○   | ●  | ●    | ●   | ○  | -    | ○   | ●   | -          | ●         |
| Cinipcl <sup>®</sup> Violet DV2P | -   | -   | ●  | ○    | ●   | -  | ●    | ○   | ●   | -          | -         |
| Cinipcl <sup>®</sup> Violet DV3P | ●   | ●   | ●  | ●    | ○   | ○  | ●    | ●   | ●   | -          | ●         |
| Cinipcl <sup>®</sup> Violet DV4P | ●   | ○   | ●  | ●    | ●   | ●  | ●    | ○   | ●   | -          | ○         |

● Recommended ○ Potential Use - Not Recommended

### Polymers and TiO<sub>2</sub> used in testing are:

- PET: Selar<sup>®</sup> PT 2251 (DuPont)
- PMMA: Plexiglas<sup>®</sup> 7H (RÖHM)
- PC: Makrolon<sup>®</sup> 2800 (Covestro)
- ABS: Terluran<sup>®</sup> 877M (BASF)
- PS: Polyrex<sup>®</sup> PG-33 (Chimei)
- PA6: Durethan<sup>®</sup> B30S (Lanxess)
- PA66: Zytel<sup>®</sup> 101L (DuPont)
- PBT: Longlite<sup>®</sup> 1100-211M (Chang Chun Group)
- HIPS: Polyrex<sup>®</sup> PH-88 (Chimei)
- POM: Delrin<sup>®</sup> 500P (DuPont)
- SAN: Kibisan<sup>®</sup> PN-117L200 (Chimei)
- TiO<sub>2</sub>: Kronos<sup>®</sup> 2220 (Kronos)

## Regulatory Compliance

| Product Name                     | FDA |       | EN71-3 | EN71-9 | APME<br>AP89/1 | CONEG<br>EC94/62 | FPL | China<br>GB9685 |
|----------------------------------|-----|-------|--------|--------|----------------|------------------|-----|-----------------|
|                                  | PET | Max % |        |        |                |                  |     |                 |
| Cinipcl <sup>®</sup> Yellow DY1P |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Yellow DY2P |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Yellow DY3P |     |       | •      | •      | •              | •                | •   | •               |
| Cinipcl <sup>®</sup> Yellow DY4P |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Yellow DY5P | •   | 0.2   | •      | •      | •              | •                | •   | •               |
| Cinipcl <sup>®</sup> Yellow DY6P |     |       | •      | •      | •              | •                | •   | •               |
| Cinipcl <sup>®</sup> Orange DJ2P | •   | 0.2   | •      | •      | •              | •                | •   | •               |
| Cinipcl <sup>®</sup> Orange DJ3P |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Red DR1P    | •   | 0.2   | •      | •      | •              | •                | –   | •               |
| Cinipcl <sup>®</sup> Red DR2P    | •   | 0.2   | •      | •      | •              | •                | •   | •               |
| Cinipcl <sup>®</sup> Red DR3P    |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Red DR4P    |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Red DR5P    |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Red DR6P    |     |       | •      | •      | •              | •                | –   | •               |
| Cinipcl <sup>®</sup> Red DR7P    | •   | 0.2   | •      | •      | •              | •                | •   | •               |
| Cinipcl <sup>®</sup> Violet DV1P |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Violet DV2P |     |       | •      | •      | •              | •                | –   | •               |
| Cinipcl <sup>®</sup> Violet DV3P |     |       | •      | •      | •              | •                | –   | –               |
| Cinipcl <sup>®</sup> Violet DV4P |     |       | •      | •      | •              | •                | •   | •               |

• listed – Not listed

FDA: Contact with aqueous, acid, low alcohol content (up to 15% ethanol) and dry foods, conditions under 21 CFR §176.170.



Our product specific and application information is based upon our current knowledge. It is non-binding and cannot be taken as a guarantee. The users must establish the suitability of individual products themselves because their use lies beyond our knowledge and control. We cannot accept any liability relating to the use of our products in particular application. In addition to that, the legal rights of third parties must always be considered.



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Cinipol-C-EN-01-202012