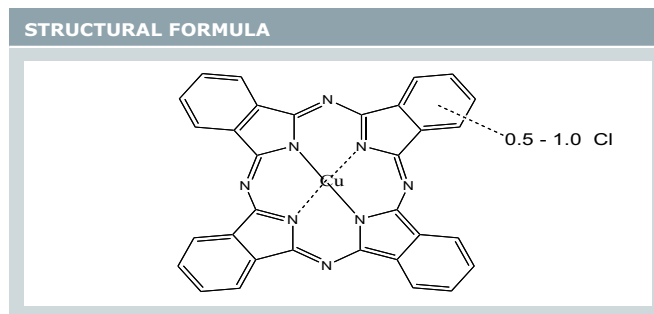
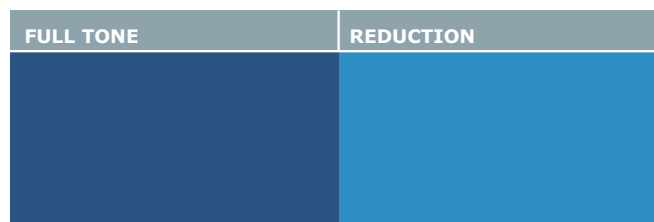


| PRODUCT DESCRIPTION      |                                   |                  |
|--------------------------|-----------------------------------|------------------|
| Color Index              | Pigment Blue 15:1                 |                  |
| C.I. No.                 | 74160                             |                  |
| Chemical Type            | Cu-Phthalocyanine Blue, alpha-mod |                  |
| CAS No.                  | 12239-87-1 / 147-14-8             |                  |
| Hue Angle [1/3 SD]       | 243.3                             |                  |
| 1/3 ISD Reduction Ratio  | 1:17.8                            | DIN EN ISO 53235 |
| 1/25 ISD Reduction Ratio | 1:216.3                           | DIN EN ISO 53235 |

| PHYSICAL DATA                        |             |                   |
|--------------------------------------|-------------|-------------------|
| Appearance                           | Blue Powder |                   |
| Density [g/cm <sup>3</sup> ]         | 1.6         | DIN EN ISO 787-10 |
| Bulk Volume [ltr/kg]                 | 3.5         | DIN 53194         |
| Specific Surface [m <sup>2</sup> /g] | 65          | DIN EN ISO 66132  |
| Oil Absorption [ml/100g]             | 40          | DIN EN ISO 787-5  |

| FASTNESS PROPERTIES  |                      |                  |
|----------------------|----------------------|------------------|
| Acid                 | 5                    | DIN EN ISO 787-4 |
| Alkali               | 5                    | DIN EN ISO 787-4 |
| Overpainting         | 5                    | 1)               |
| Water                | 5                    | DIN EN ISO 2836  |
| Butanol              | 5                    | DIN EN ISO 2836  |
| Butyl Acetate        | 5                    | DIN EN ISO 2836  |
| Xylene               | 5                    | DIN EN ISO 2836  |
| MEK                  | 5                    | DIN EN ISO 2836  |
| White Spirits        | 5                    | DIN EN ISO 2836  |
| Heat Resistance [°C] | 190                  | 2)               |
| Light Fastness       | DIN EN ISO 105-B01   |                  |
| Full Shade           | 8                    |                  |
| 1:1 TiO <sub>2</sub> | 7-8                  |                  |
| 1/3 ISD              | 7-8                  |                  |
| Weather Fastness     | DIN EN ISO 20105-A02 |                  |
| Full Shade           | [12 months] 5        | [24 months] 5    |
| 1:1 TiO <sub>2</sub> | [12 months] 5        | [24 months] 5    |
| 1/3 ISD              | [12 months] 5        | [24 months] 5    |

| STANDARD PACKAGING                                      |
|---------------------------------------------------------|
| - 10kg PE Bags, 15kg Paper Bags                         |
| - Different types of packaging are available on request |



| APPLICATION PROFILE      |             |
|--------------------------|-------------|
| Waterborne Paints        | Recommended |
| Air Drying Alkyds        | Recommended |
| Stoving Enamels          | Recommended |
| Acid Curing Systems      | Recommended |
| Amine Curing Epoxies     | Recommended |
| Isocyanate Cured Systems | Recommended |
| Powder Coatings          | Recommended |

| REGULATIONS                                   |           |
|-----------------------------------------------|-----------|
| Germany BfR recom. IX                         | Compliant |
| AP 89/1                                       | Compliant |
| USA (FDA) 21 CFR § 178.3297                   | Listed    |
| Toys Europe EN 71-3:2013                      | n.a       |
| Toys USA ASTM F 963-03                        | Compliant |
| CONEG, EC 94/62                               | Compliant |
| ROHS, 2002/95/E, 2005/618/EC                  | Compliant |
| End of Life Vehicles, 2000/53/EC, 2002/525/EC | Compliant |

| CHEMICAL INVENTORY LISTING STATUS                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All ingredients are listed in the following national chemical inventories:<br>EINECS [Europe], TSCA [USA], DSL [Canada], AICS [Australia], NZIoC [New Zealand], MITI [Japan], ECL [Korea], IECSC [China], PICCS [Philippines] |

1) Pigments were tested in an alkyd/melamine system with 30 minutes baking time at 160°C.

2) Pigments were tested in an alkyd/melamine system.

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