



Technical data sheet

UPL COBALT GREEN 50 (VV 1050)

Product information	
Chemical name	Cobalt titanate green spinel
Chemical formula	Co/Ti/Ni/Zn-oxide
Colour index	Pigment green 50
C.I. No.	77377
CAS No.	68186-85-6
EINECS No.	269-047-4

Physical data	
Appearance	Green powder
Apparent Density (g/cc)	0.65 to 0.75
Specify gravity (g/cm ³)	5.50 Approx.
Moisture content at 105°C (%)	1.0 Max
Water soluble matter (%)	1.0 Max
Oil absorption (% by wt.)	20 ± 5
Median particle diameter (µm)	2.00 Max
Residue on 45µm sieve (% by wt.)	0.25 Max
pH	8.0 - 9.0

Regulatory information	
Germany BfR recom. IX	Complies
APME AP 89/1	Complies
USA (FDA) 21 CFR § 178.3297	Listed
RoHS / WEEE	Complies
Toys USA ASTM F 963-03	Complies
CONEG, EC 94/62	Complies
RoHS, 2002/95/EC, 2005/618/EC	Complies
End of Life Vehicles, 2000/53/EC, 2002/525/EC	Complies

Standard Packaging
25 Kg paper bags with LDPE liner inside
Packing / Palletisation can be altered & offered based on request

Mass tone	Tint tone

Fastness properties	
Heat resistance	700°C
Solvent resistance	5
Acid resistance	5
Alkali resistance	5
Light fastness	8
Weather fastness	5
a) Solvent is added to the pigment and assessment on grey scale is done as per DIN EN ISO 20105-A02 (1-Severe; 5-No degradation) b) By adding 10% hydro chloric acid and 10% sodium hydroxide to the pigment c) Light fastness was tested in an alkyd system and assessment done using wool scale as per DIN EN ISO 105-B01 (8 - Extremely good) d) Weather fastness was tested in waterborne acrylic resin system and assessment done using grey scale as per DIN EN ISO 20105-A02 after 2000 hours accelerated weathering	

Chemical inventory status
Pigment green 50 is listed in the following national chemical inventories: AICS (Australia), DSL (Canada), ECL (Korea), EINECS (Europe), IECSC (China), MITI (Japan), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA).

Toxicity
Least toxic and a safe pigment for industrial applications. It is ecologically non-hazardous and does not create any skin or eye irritation

Application areas
RPVC, Poly olefins, Engineering resins, Ceramics, Paints and Powder coatings etc.,

Disclaimer:

Our product specifications, application related information and additional information in this document are based on our current state of knowledge. The shade indicated here is only for reference and may vary based on the dilution medium and background. This information is provided for reference only. This can be changed without prior notice.