Europark 1046, B-3530 Houthalen
+ 32 11 520740
www.radiantcolor.com

Technical Data Sheet

VSF-0-01

General Description

- Solid state fluorescent pigment for EU market.
- Pigment Yellow 101 – PY101.

Applications

- Non-destructive material testing, crack detection, waterborne (flexo/ gravure/ offset) inks.
- Coloring of waxes, chalk and crayons.

Physical properties	
Appearance	Yellow Powder
Hue under UV light	Bright Yellow (greenish)
Mol. Formula	$C_{22}H_{16}N_2O_2$
Mol. Weight	340.12
Particle size D_{50}	8 - 12 µm
Melting point	>305°C

Standard Color	
Product Name	Description
VSF-0-01	Yellow

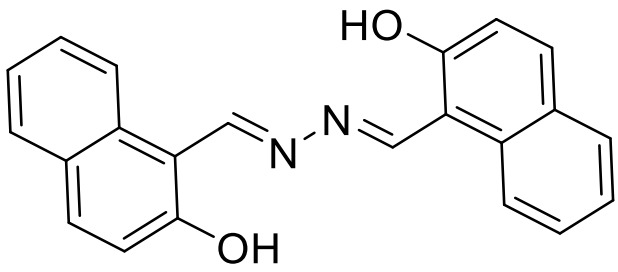
Characteristics	
Chemical type	Azomethine
C.I. No.	48052
C.I. Name	PY101
CAS	2387-03-3
EINECS	219-210-0

Packaging:
1 box = 10kg
MOQ = 20kg

Storage & shelf life:
120 months when kept in closed original packaging in a dry place at ambient temperature.

Safety & regulatory:
Safety Data Sheet available on request.

Chemical Structure



Solubility and bleeding data

Solvent	Solubility	Bleeding
Acetone	5	2
IPA	5	5
Xylene	5	3
EtOAc	5	3
XyMek 50	5	3
NMP	5	1
EtOH	5	5
Toluene	5	3
MEK	5	3
Mineral oil	5	5

5	Very good
4	Good
3	Moderate
2	Poor
1	Very poor

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Fluorescent pigments are insoluble and need to be dispersed (easily stir-in) in a solvent. Please take into account that some solvents attack the pigments and are not recommended to use. As a formulation contains mostly different solvents, it is impossible to generalize. We recommend to check the fluorescent pigment in your formulation. Solvent resistance and bleeding performance of the pigments were checked in the most commonly used solvents according to our test procedure.

Test method Solvent Resistance (SR):
1g of pigment dispersed in 10ml of solvent; after stirring for 1 minute, the mixture is left at 38°C over 30 minutes. The solvent attack on the pigment indicates the solvent resistance. The higher the number (5) the better.

Test method Dissolution (B):
1g of pigment dispersed in 10ml of solvent; after stirring for 1 minute and storage for one week a t room temperature, the mixture is filtered. The transmission % is measured of a 50 times diluted filtrate. The higher the number (5) the better.

Fluorescence
λ-max (0,05% in acrylic paint) = 528nm (excitation at 350nm)