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

Technical Data Sheet

CFS-0-01

General Description

- Daylight and ultra-violet responsive fluorescent dye.
- Soluble in most organic solvents. Insoluble in water.

Applications

- Mainly used to color plastics.
- Also useable for solvent based paints.

Standard Color	
Product Name	Description
CFS-0-01	Yellow

Characteristics	
Chemical type	Naphtalimide
C.I. No.	516930
C.I. Name	Solvent Yellow 43
CAS	19125-99-6
EINECS	242-828-7

Physical properties	
Appearance	Yellow powder
Hue under UV light	Greenish yellow
Mol. Formula	$C_{20}H_{24}N_2O_2$
Mol. Weight	324,18
Melting point	125 – 129 °C

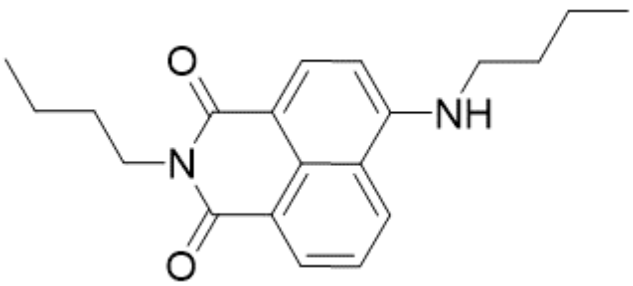
Packaging:
Box = 1kg
Box = 5kg
Box = 10kg
Box = 20kg

MOQ = 1kg

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

Solvent	Solubility
Acetone	++
Ethylacetate	++
MMA	++
DIDP @RT	-
DIDP	+++
DMF	+++
Water	0

Solubility	Evaluation	g/100ml
+++	High	5
++	Good	1
+	Limited	0,1
-	Low	< 0,1

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Test method
The solubility of three dye concentrations (5g, 1g and 0,1g) is tested in 100ml of the listed solvents at room temperature. After stirring 30 minutes, the solubility is visually evaluated.

As a formulation contains mostly different solvents, it is impossible to generalize. We recommend checking the solubility of the fluorescent dye in your formulation.

Absorption and Fluorescence
Absorption: λ-max (0,0005% in ethanol) = 443nm
Fluorescence: λ-max (0,0005% in ethanol) = 524nm (excitation at 350 nm)