



Dongguan Baoxu Chemical Technology, Ltd.

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Email:info@additivesforpolymer.com Web:www.additivesforpolymer.com

Room1118 Caijin Business Building Nancheng Distinct Guangdong Province China

Optical brightener OB

Chemical name: 2,5-Thiophenediylbis(5-tert-butyl-1,3-benzoxazole)

Formula	C ₂₆ H ₂₆ N ₂ O ₂ S	
MW	430	
CAS#	7128-64-5	

Specification:

Appearance	Slight greenish yellow powder
Dosage	0.01-0.05%
Melting point	199-202°C
Purity	≥99%
Solubility	(g/100 g solution) at 20° C:
Acetone	0.5
Chloroform	14
Dimethylformamide	0.8
Dioxane	2
n-Hexane	0.2
Methanol	<0.1
Methylethylketone	1.3
Tricresylphosphate	0.8
Xylene	5

Application:

Brilliant bluish whitening effects; excellent heat resistance; high chemical stability; good compatibility in a wide range of resin

Used as an optical brightener and to offset the yellowness of a polymer and yield a whiter appearance. Can be used in thermo-plastics, coatings, printing inks, paints, dyes, manufactured fibers, synthetic leather, waxes, fats, and oils.

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Recommend indoor use only

If optical brightener OB must be used in combination with a UV absorber, the absorption spectrum of the latter must leave an open window in the near UVA for the optical brightener.

Recommended concentrations:0.02-5% depend on the application and degree of desired whiteness

Handling and Safety:

FDA approved for use in polymers subject to the limitations in 21 CFR §176.170(c).

OPTICAL BRIGHTENER OB should be handled in accordance with good industrial practice.

For additional handling and toxicological information, please consult us for **Maternal Safety Data Sheet**

Package:

25kg per fiber drum, 6*2 layer 12 drum per pallet, 5CBM per ton, or per customer requirement

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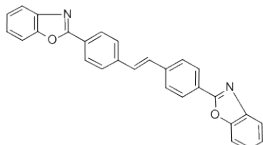
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Optical brightener OB-1

Chemical name: 2,2'-(vinylendi-p-phenylene)bisbenzoxazole

Formula	C ₂₈ H ₁₈ N ₂ O ₂	
MW	414	
CAS#	1533-45-5	

Specification:

Appearance	yellowish or greenish powder
Melting point	357-359°C
Solubility	(g/100 g solution) at 20° C:
Acetone	<0.1
Chloroform	<0.1
Hexane	<0.1
Methanol	<0.1
Water	<0.1

Application:

Brilliant, neutral white cast that compensates for yellowing; Low volatility and excellent heat resistant make the product ideal for use in fibers and in engineering plastics processed at high temperatures; In combination with dyes, produces particularly bright shades; Good light fastness;

OB-1 is excellent oxazole type brightener, Mainly be used in whitening of polyester and plastic ABS, PS, HIPS, PA, PC, PP,EVA, rigid PVC etc., also in whitening of Nylon during polymerization.

Recommended concentrations: 0.005-0.2% depend on the application and degree of desired whiteness

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Handing and Safety:

FDA cleared for use in all polymers

For additional handing and toxicological information, please consult us
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Package:

25kg carboard drum lined with PE bag, or per customer requirement

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Optical Brightener KSN

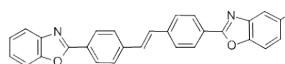
Chemical name:

4,4-bis(5-methyl-2-benzoxazol)-ethylene

Formula $C_{29}H_{20}N_2O_2$

MW 442

CAS# 5242-49-9



Specification:

Appearance Pale yellow powder

Dosage 0.01-0.05%

Melting point 269-271 °C

Application:

KSN and OB-1 share similar chemical structure, while better whitening effect on PC and plastics than OB-1, also better compatibility than OB-1, KSN also has high temperature resistance performance, but also light and weather resistance, KSN also suitable for PA, PAN, film, injection/extraction mould whitening, a ideal effect could achieved in any processing time of synthetic polymer

Handling and Safety:

For additional handling and toxicological information, please consult us for **Maternal Safety Date Sheet**

Package:

25kg cardboard drum lined with PE bag, or per customer requirement

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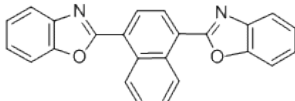
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Optical brightener KCB

Chemical name: 1,4-Bis(benzoxazolyl-2-yl)naphthalene

Formula	C ₂₄ H ₁₄ N ₂ O ₂	
MW	362	
CAS#	5089-22-5	

Specification:

Appearance	yellow crystalline powder
Dosage	0.01-0.05%
Melting point	210-212°C
Purity	≥99%
Maximum UV Absorption Spectrum	370nm

Application: mainly be used in whitening of synthetic fiber and plastic products, especially good at whitening of EVA.

Handing and safety:

For additional handing and toxicological information, please consult us for **Maternal Safety Date Sheet**

Package: 25kg cardboard drum lined with PE bag, or per customer requirement

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Optical brightener CBS X

Chemical name:

2,2'-([1,1'-Biphenyl]-4,4'-diyl-di-2,1-ethenediyl)bis-benzenesulfonic acid disodium salt

Formula	$C_{28}H_{20}S_2O_6Na_2$	
MW	562	
CAS#	27344-41-8	

Specification:

Appearance	Yellow powder
Water content	≤5%
Purity	≥99%

Application:

High solubility: easy to formulate in all product types; No staining (pre-spot); Good photostability; Outstanding whitening ; High affinity to cellulosic fibers: high exhaustion rate, no greening after repeated washings

Mainly be used in whitening detergent, concentrated liquid detergent and water based coatings, also used for fiber, nylon, wool, paper, cotton, T/C Blends

Recommended concentrations: 0.05~0.5% depend on the application and degree of desired whiteness

Handling and safety:

For additional handling and toxicological information, please consult us for **Material Safety Data Sheet**

Package:

25kg per drum, or per customer requirement

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Optical brightener FP-127

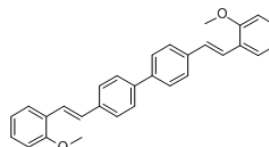
Chemical name:

4,4'-Bis(2-methoxystyryl)-1,1'-biphenyl;

Formula C₃₀H₂₆O₂

MW 418.53

CAS# 40470-68-6



Specification:

Appearance Yellow powder

Melting point 219-221°C

Purity ≥99%

Application:

Optical Brightener FP-127 used in whitening of plastics such as

PVC,PS,ABS,TPR,etc. but it has limited weather resistance in PE

Recommended concentrations: 0.05~0.5% depend on the application

and degree of desired whiteness

Handling and safety:

For additional handling and toxicological information, please consult us for **Maternal Safety Date Sheet**

Package: 25kg per drum, or per customer requirement

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Optical brightener ER-I

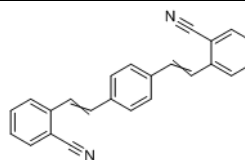
Chemical name:

4,4'-Bis(2-methoxystyryl)-1,1'-biphenyl;

Formula C₂₄H₁₆N₂

MW 332.4

CAS# 13001-39-3



Specification:

Appearance yellow green crystalline powder

Melting point 229-231°C

Purity ≥99%

Application:

>Optical Brightener ER-I used in whitening and brightening polyester fiber. It has favorable whitening and brightening agent for polyethylene, polypropylene, PVC and other plastics and products

>Recommended concentrations: 0.05~0.5% depend on the application and degree of desired whiteness

Handling and safety:

For additional handling and toxicological information, please consult us for **Material Safety Data Sheet**

Package: 25kg per drum, or per customer requirement

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Optical brightener ER-I I

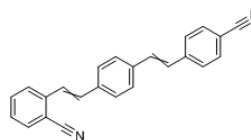
Chemical name:

4,4'-Bis(2-methoxystyryl)-1,1'-biphenyl;

Formula C₂₄H₁₆N₂

MW 332.4

CAS# 13001-38-2



Specification:

Appearance yellow green crystalline powder

Melting point 184-186°C

Purity ≥99%

Application:

>Optical Brightener ER-II used in whitening and brightening polyester, polyester/cotton, polyester/yarn, polyester/linen and other blended fabrics

>Recommended concentrations: 0.05~0.5% depend on the application and degree of desired whiteness

Handling and safety:

For additional handling and toxicological information, please consult us for **Maternal Safety Date Sheet**

Package: 25kg per drum, or per customer requirement

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Optical brightener PF

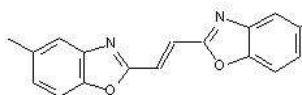
Chemical name:

1,2di(methyl-benziazol)ethylene

Formula C18H14N2O2

MW 290

CAS# 1041-00-5



Specification:

Appearance yellow green powder

Melting point 182-188°C

Purity ≥99%

Application:

>Optical Brightener PF used in brightening PVC, PS, PP, polyester film, PE, ABS, organic glass, visiting card, high quality paper ,etc.

>Recommended concentrations: 0.05~0.5% depend on the application and degree of desired whiteness

Handing and safety:

For additional handing and toxicological information, please consult us for **Maternal Safety Date Sheet**

Package:

corrugated paper box with a liner of plastic bag. The net weight of each box is 10 kg, or according to customers' requirements.

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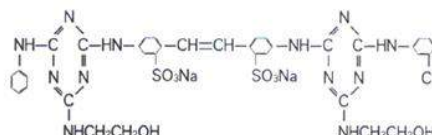
Optical brightener VBL

Chemical name:

Formula C36H34N12O8S2Na2

MW 872.84

CAS# 12224-16-7



Specification:

Appearance	yellow green powder
Purity	≥98%

Application:

>Optical Brightener VBL is used in whitening and brightening cellulose fabric, paper, light colored cellulose, dial dye printing etc.

>Recommended concentrations: 0.05~0.5% depend on the application and degree of desired whiteness

Handing and safety:

For additional handing and toxicological information, please consult us for **Maternal Safety Date Sheet**

Package:

corrugated paper box with a liner of plastic bag. The net weight of each box is 10 kg, or according to customers' requirements.

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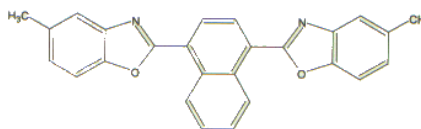
Optical brightener KSB

Chemical name:

Formula $C_{26}H_{18}N_2O_2$

MW 390

CAS# 7128-54-5



Synonyms: Fluorescent Brightener 369 (FBA 369), C.I.369, Telalux KSB, Fluorescent Brightener KSB

Specification:

Appearance yellow powder

Melting Point 237-239°C

Purity $\geq 99\%$

Application: > Optical Brightener KSB is mainly used in whitening synthetic fiber and plastic products, especially good at whitening of film, EVA and PE form products.

Handling and safety:

For additional handling and toxicological information, please consult us for **Maternal Safety Date Sheet**

Package: corrugated paper box with a liner of plastic bag. The net weight of each box is 10 kg, or according to customers' requirements.

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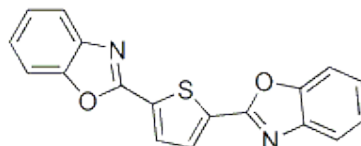
Optical brightener EBF

Chemical name:

Formula C18H10N2O2S

MW 318

CAS# 12224-41-8



Synonyms: Fluorescent Brightener 185(FBA 185), C.I.185, Fluorescent Brightener EBF

Specification:

Appearance	yellow powder
Melting Point	216-220°C
Purity	≥99%

Application: > Optical Brightener EBF is used in making commercialized Brightener-EB, and can also be used in various polyolefin plastics, ABS engineering plastics and organic glass to make their colour brighter and whiter.

Handling and safety:

For additional handling and toxicological information, please consult us for **Maternal Safety Date Sheet**

Package: corrugated paper box with a liner of plastic bag. The net weight of each box is 10 kg, or according to customers' requirements.

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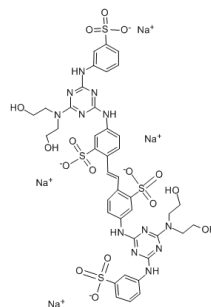
Optical brightener 4BK

Chemical name:

Formula C₄₀H₄₀N₁₂O₁₆S₄.4Na

MW 1165.05

CAS# 12768-91-1



Synonyms: Fluorescent Brightener 87(FBA 87), C.I.113, Fluorescent Brightener 4BK

Specification:

Appearance	yellow powder
Water	<5%
Fineness	(120 mesh residue): ≤5%
Water insoluble content:	≤0.5%

Application: > Optical Brightener 4BK is used in whitening cotton fabric and polyester/cotton blends. anionic, PH4.5-11, good solubility. Mainly used for the whitening of cotton, fibre and chinlon. Better effect than VBL when PH value among 4.5-7 and consumption can be reduced 15-25%.

Handing and safety:

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