

Tinolux[®] BMC Solid

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Photocatalytic Systems for Fabric Care Products

General

Tinolux BMC Solid is a new Photocatalytic System designed as a post addition ingredient, especially to white detergent powders. Laundry Care products containing Tinolux BMC Solid achieve high whiteness perception by photoshading effects at very low concentrations and even at low washing temperatures. Excellent tinting effects are obtained with no over hue after successive laundering cycles due to the limited light stability of Tinolux BMC Solid. Stains are efficiently photobleached even by exposing laundered fabrics to artificial light sources.

Chemical nature

Sulfonated Tetrabenzo-tetraazaporphine derivative

PRD-No.*

30474864

* BASF's commercial product numbers.

Applications

Suitable for conventional and compact detergents powders.

Features/benefits**Bluish cast**

Tinolux BMC Solid improves the whitening performance of laundry products by enhancing the fabric's white appearance. For better whitening effects, the usage of Tinolux BMC Solid in combination with fluorescent whitening agents (FWA's) is recommended.

Limited photostability

Provides safe bluish shade with minimum tinting build up after successive washing cycles.

Efficient photobleach ingredient

In addition to the shading properties, appropriate stain removal levels are achieved by applying small amounts of Tinolux BMC Solid at low washing temperatures. Only moderate light exposure is needed to bleach oxidizable stains.

Fine granulated form

Tinolux BMC Solid is dissolved fast in water resulting a homogeneous catalytic action in the washing liquor and on the fabrics.

Physical Properties

Product Appearance	Greenish black fine granules
Particle Size	50 – 200 µm
Ionic character	Anionic
Absorption maximum	665 – 680 nm (Borax buffer pH 9.5, 1:1 mixture ethanol and water)
Density	0.55 – 0.75 kg/l
Odor	Practically odorless
Shelf life	24 months

Guidelines for use

Tinolux BMC Solid is simply incorporated as a post dosage ingredient to dry blends or spray dried base powders.

Since only small amount is needed for the effects, a pre-dry mix with post addition ingredient from the detergent formulation and Tinolux BMC Solid might be required for accurate dosage and to achieve homogeneous distribution in the laundry product.

The incorporation level of Tinolux BMC Solid is depending on the local washing conditions and specific detergent formulation. The optimum concentration to get the desired shade with or without FWA (bluing) and to achieve the required cleaning and bleaching effects should be determined by tests applying the established laundry conditions.

Recommended concentrations

Concentrations of 0.01% to 0.04% Tinolux BMC Solid related to the detergent weight are recommended.

Final amounts of Tinolux BMC Solid on the fabric must be considered to achieve the desired effects in cases of laundering with low detergent dosages. Concentrations around 0.0004 – 0.0016% of Tinolux BMC Solid per Kg fabric are recommended.

Packaging

Tinolux BMC solid is available in 25 kg paper bag.

Storage stability

Tinolux BMC solid is stable under normal storage conditions. Avoid exposition at moist storage conditions of Tinolux BMC Solid itself and formulated final products.

Detergent formulations containing conventional bleaching ingredients such as perborate and activators do not have adverse effect on the stability of Tinolux BMC Solid during storage in the detergent or in the wash bath.

Ecology/ Toxicology

Detailed information on handling and any precautions to be observed in the use of the product can be found in the relevant Health and Safety information sheet.

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