



Division of Kingscote Chemicals

## WATER TRACING WAX PRODUCTS

### STANDARD BLUE

#### TECHNICAL DATA BULLETIN

Bright Dyes Standard Blue products are specially formulated versions of the dye Acid Blue 9. This dye is used for visual detection only and cannot be seen under ultraviolet light or detected by fluorometry. However, when used visually, its color is often thought to be more acceptable to public view than the fluorescing red or yellow green Bright Dyes products. In this respect, it is sometimes used in fountains, ponds and streams for decorative effect. Visually, the dye appears as aqua to royal blue depending on its concentration and activity of the water.

Based on biochemical oxygen demand (BOD) studies, the dye is biodegradable with 77% of the available oxygen consumed in 7 days. Bright Dyes Standard Blue products have been certified by NSF International to the ANSI/NSF Standard 60 for use in drinking water at specific levels. As always a qualified hydrologist or other industry professional should evaluate the suitability of these products for any specific application.

#### General Use:

- \* Examine Water Movement, Current, Flow (In springs, streams, lakes, ocean etc.)
- \* Flow Mapping, Tracing and Time Studies
- \* Pollution Studies (Discharge-Rate of Flow-Mixing, Diffusion and Dispersion- Circulation)

General Properties	Cakes	Cones	Donuts
Detectability of active ingredient <sup>1</sup>	Visual <100 ppb	Visual <100 ppb	Visual <100 ppb
Maximum absorbance wavelength <sup>2</sup>	630 nm	630 nm	630 nm
Appearance Size	Dark Blue Cone 1 7/8" Base 7/8" Height	Dark Blue Cone 3.0" Base 1 3/8" Height	Dark Blue Donut 4" Diameter 4" Height / 1/2" hole
Weight	1.25 oz ± 5%	4.5 oz ± 5%	32 oz ± 5%
Wrapping	Heat sealed in cold water film	Heat sealed in cold water film	Heat sealed in cold water film
Dissolution Time <sup>3</sup>	About 45 minutes in sea water	About 1 hour in sea water	About 3-5 hours in sea water

Coverage of Products	One Cake	One Cone	One Donut
Light Visual	2400 gallons	9,600 gallons	74,000 gallons
Strong Visual	240 gallons	960 gallons	7,400 gallons

Caution: These products may cause irritation and/or staining if allowed to come in contact with the skin. The use of gloves and goggles is recommended when handling this product, as with any other dye or chemical.

To our best knowledge the information and recommendations contained herein are accurate and reliable. However, this information and our recommendations are furnished without warranty, representation, inducement, or license of any kind, including, but not limited to the implied warranties and fitness for a particular use or purpose. Customers are encouraged to conduct their own tests and to read the material safety data sheet carefully before using.

<sup>1</sup> In deionized water in 100 ml flask. Actual detectability and coverage in the field will vary with specific water conditions.

<sup>2</sup> Smaller peak at 405 nm.