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Water Soluble Photochromic Dyes for Flow Visualisation ...

A photochromic dye is a material that

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will undergo a reversible change in its absorption spectrum when exposed to electromagnetic radiation. A powerful method of flow visualization is provided through the use of such dyes. A nonintrusive "line marker" can be created within the liquid by exciting the dye solution...

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PHOTOCHROMIC DYE TRACING - Thermopedia

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Water Soluble Photochromic Dyes for Flow Visualisation by ...

Solvent of the dye. Most of the photochromic dyes are soluble only in organic solvents; consequently, they cannot be used in large flow facilities. Acid Violet 19 and malachite green? Flow visualization using photochromic dyes 181 bisulphite were proposed as

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possible dyes that are soluble in water.
(e) Absorption wavelength of the fundamental state.

Flow visualization using photochromic dyes: A review ...

Recent research has identified a useful water soluble photochromic for flow visualisation, [3,4], which relaxes many

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of the constraints within which the technique has previously been bound. In this report we summarise our finding on the chemical and photochemical properties of this photochromic system and illustrate its application to studies ...

Characterisation of a Photochromic Triarylmethane Dye ...

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Most of the photochromatic dyes are soluble only in organic solvents, such as alcohol, kerosen, silicone oil. Even though some photochromic dyes are proposed in the literature as candidates for use in water, efforts to develop a photochromic flow visualization in water have met moderate success , , , , . The working fluid utilized in this study is

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silicone oil.

Laser photochromic dye activation technique for the ...

PHOTOCHROMIC Dyes, Inks & Plastics.
Photochromic Pigments TDS QCR
Solutions' PhotoFlare Photochromics
reversibly change color upon exposure
to ultraviolet light in the range of 300 -

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360nm. They are available in a wide range of formats and colors.

Photochromic Dyes - QCR Solutions Corp

Photochromic Dye Technical Data
Description Photochromic dyes are reversible raw dyes in crystalline powder form. Photochromic dyes reversibly

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change color upon exposure to ultraviolet light in the range of 300 to 360 nanometers. Full color change occurs in just seconds when using a flash gun to 20-60 seconds in the sunlight.

Photochromic Dye Technical Data - LCR Hallcrest

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The dyes used in plastics are not water soluble, so it is not an issue. I've pelletized nylons, polyesters, styrenics and acrylics containing solvent dyes that do not leach into the process water. Fluorescent pigments are actually fluorescent dyes encapsulated into a polymer matrix and ground to fine particle size.

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Photochromic and thermochromic Materials | Physics Forums

thoroughly mixed with the water. Flow rate is established from the determination of the dilution of the injected dye. If this dye is injected at a constant rate, the relationship between the concentration and flow is, in its

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simple form: $Q_1 C_1 = Q_2 C_2$ Where: Q_1 = dye injection rate C_1 = concentration of injected dye Q_2 = flow rate to be determined

Flow Measurement Using the Dye Dilution Technique

Photochromic dyes reversibly change color upon exposure to ultraviolet light

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in the range of 300 to 360 nanometers. Full color change occurs in just seconds when using a flash gun to 20-60 seconds in the sunlight.

Photochromic Dyes Technical Data Sheet

Presto Dychem is a leader in the manufacturing of water tracing dyes. Our

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Trace-A-Leak dyes are widely used for color identification in water systems. Uses include leak detection in closed systems, plumbing tracing, septic system tracing, sewer drain studies, pond leaks, flow and rate studies and more.

Water Tracing Dyes - Presto Dye

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The mechanisms and theory of the changes in properties of various types of photochromic dyes are presented. In response to the need for a water-soluble photochromic dye, a tri-arylmethane dye, Acid...

Laser photochromic dye activation technique for the ...

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Photochromic Inks will change color when exposed to UV light from the sun or a black light.

Water Based Photochromic Kit - Reversible

The interactions between anionic or zwitterionic liposomes and a water-soluble, DNA-binding photochromic

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spiropyran are studied using UV/vis absorption and linear dichroism (LD) spectroscopy. The spectral characteristics as well as the kinetics of the thermal isomerization process in the absence and presence of the two different liposome types provide information about the environment and ...

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Interactions of a Photochromic Spiropyran with Liposome ...

Our Water Soluble NIR Dyes and Water Soluble Absorbing Dyes can be incorporated into aqueous coatings, inks, and solutions. These Water Soluble Absorbing Dyes can be used for Laser Protection Eyewear, Light Filters (narrow

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or broad band), Welding Protective Eyewear, Security Inks,...

Water Soluble NIR Dyes - QCR Solutions Corp

Thermochromic Leuco Dye Paint Kits. Touch Activated Color to Clear Transformation; Black, blue or red will vanish when stimulated by touch; Cold

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Activated Clear to Color Transformation; Black, blue or red will appear when stimulated by cold; Photochromic Paint Kit . UV Activated Paint Clear to Color Transformation

Thermochromic and Photochromic Test Kits

For larger amounts of water, Bright Dyes

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POWDER or LIQUID products may be the most suitable for your needs due to their higher coverage capabilities. In applications involving long-term flow studies, a Bright Dyes WAX product such as cakes, cones or donuts should be used as they dissolve more slowly than other forms.

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How to choose the right leak detection dye - Bright Dyes

CF™ Dyes: Enhanced Fluorophores with Novel Dye Chemistry CF dyes are a series of highly water-soluble fluorescent dyes spanning the visible and near-infrared (near-IR) spectrum (Figure 1A and 1B) for labeling antibodies, proteins, nucleic acids, and other biomolecules.

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CF™ Dyes - Fluorescent Labels | Sigma-Aldrich

The U.S. Geological Survey is active in measuring time of travel in streams using dye tracers. This manual describes methods of measuring time of travel of water and waterborne solutes by dye tracing. The fluorescent dyes, measuring

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equipment used, and field and laboratory procedures are also described.

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