FluoTechnik
FLUORESCENT DYES SOLUTIONS

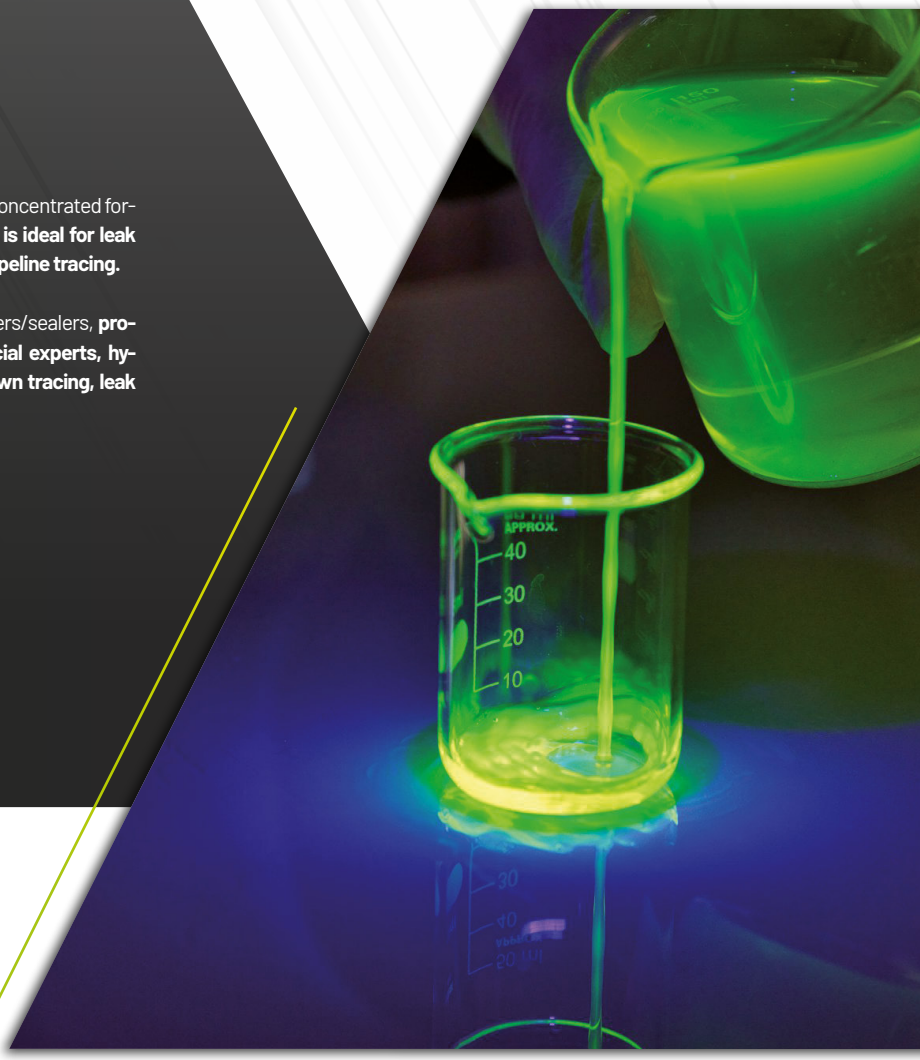
X-TRACE

CONCENTRATED UV TRACER FOR WATER LEAK DETECTION IN SWIMMING POOLS PIPELINE TRACING / INFILTRATION TEST

X-TRACE is a biodegradable fluorescent tracer for water with an extra concentrated formulation! Supplied with its injection needle, this 50 ml syringe format **is ideal for leak detection in pools and ponds, infiltration tests in soil and walls, and pipeline tracing.**

X-TRACE is perfectly suited for plumbers and pipe professionals, roofers/sealers, **property inspectors, leak detection specialists, pool technicians, judicial experts, hydrogeologists..., as well as any individual wishing to conduct their own tracing, leak detection, and waterproofing tests.**

Molecule name	**disodium benzoate**
Synonym	**uranine**
C.I. Name	**xanthene**
CAS	**518-47-8**
EINECS	**208-253-0**



PRODUCT CHARACTERISTICS

Appearance : concentrated liquid, no particular odor

Color in aqueous solutions : neon yellow / green fluorescence under UV light
The «fluorescent» effect depends on the concentration of dye; however, beyond a certain dose, this fluorescence tends to disappear.

Excitation wavelength : around 365 nm (fluorescent lamp)

Emission wavelength : around 520-525 nm

pH (at 20°C) : about 8-11, in aqueous solution

Alkali resistance : good resistance

- **Pure ammonia :**
Bright fluorescent yellow solution, stable for at least 1 month
- **Diluted ammonia (pH = 13) :**
Bright fluorescent yellow solution, stable for at least 1 month
- **Pure lye :**
Pinkish yellow solution, non-fluorescent; turns pinkish-gray after a few hours

Diluted lye (pH = 13) : Bright fluorescent yellow solution, stable for at least 1 month

Acid resistance : poor resistance (fluorescence decreases in acidic environments, pH < 5)

Light resistance : the color fades fairly quickly when the solution is exposed to light, especially if the pH is slightly acidic.

BIODEGRADABLE · ENVIRONMENTALLY FRIENDLY · READY TO USE · EASY CLEANING · FLUORESCENT UNDER UV LIGHT

Oxidizer resistance: sensitive to oxidizing agents (chlorine, chlorine dioxide, ozone...)

Solution discoloration / cleaning:
by adding an oxidizing agent (such as bleach)

Melting point: 320°C

Shelf life: at least 5 years, in hermetically sealed packaging, protected from light, moisture, freezing, and heat.

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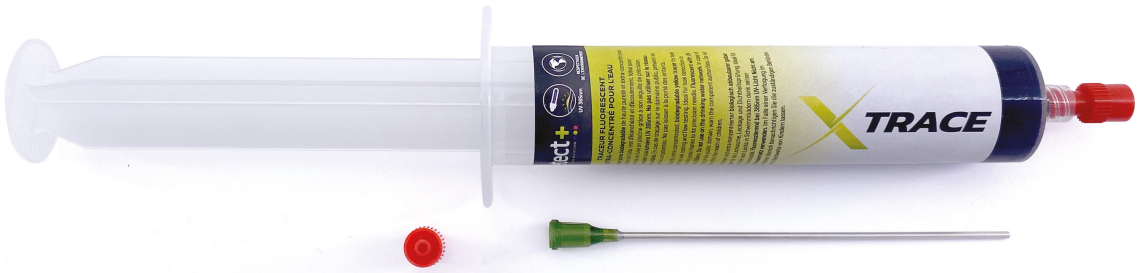

MAIN APPLICATION AREAS

- **Swimming pool, pond, shower tray, bathtub leak detection**
- **Hydrology :** Swimming pool leak detection, tracing waterways or leaks in pipelines (wastewater and rainwater networks), river flow measurements, tracing ocean currents...

Fluorescein (or uranine) is a reference tracer, which can be used at very low concentrations with appropriate precision measuring devices (such as a fluorimeter). However, this dye is difficult to use in acidic waters, due to the loss of fluorescence caused. Additionally, as this tracer is sensitive to light exposure, it must be kept out of light to avoid degradation.

- **Coloring fountains, ponds...**
- **Special effects,** in daylight or under UV light (= «black light»)

NOTES

No ecotoxicity has been demonstrated in tests conducted on various fish species; available literature results on daphnia confirm these conclusions. This tracer can be used in groundwater without special precautions. Do not introduce near drinking water catchments (non-food grade dye).

NOTES

The dye does not stain non-porous materials (marble, enamel/porcelain, tile, stainless steel...). However, in case of traces/stains, the dye can be easily removed with bleach or an alkaline detergent.

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