



DYES AND MARKERS

ORGANIC SPECIALTIES



FLUORESCENT YELLOW 131SC

DESCRIPTIONS AND FEATURES

Fluorescent Yellow 131SC is a concentrated solvent soluble dye containing Solvent Red 175 in a high flash hydrotreated naphthenic solvent system. The product is a dark colored liquid and has been found to be completely miscible in most petroleum or organic based products.

The solvent is used in the product as a viscosity depressant and standardizing agent.

Typical Properties

The following properties are typical and should not be considered specifications

Density (lbs/Gal)	7.6
Excitation Maximum Hexane solvent	494 ± 5 nm
Emission Maximum Hexane solvent	535 ± 5 nm
Flash Point, ASTM D-3278	>85°C, 185°F
Solubility in Petroleum Products	Completely Miscible

Specifications

A certificate of analysis including each of the following measured parameters is available

Fluorescent Intensity (vs Standard)	100 ± 5%
Insolubles (Filter Method)	0.2% Maximum
Water Content (Karl Fisher Method)	0.5% Maximum

Typical Uses

Fluorescent Yellow 131 SC can be used for detecting oil leaks in gasoline and diesel engines.

This application requires addition of the fluorescent dye to the engine oil and subsequent examination of the engine using a high intensity black light. Leaks are easily detected with this system by the intense white-yellow fluorescence of the dye. This fluorescence is readily distinguished from the natural blue fluorescence found in some oils.

Application Recommendations

Introduction of the dye into the engine can be carried out in one of two ways. Engine oil and dye may be premixed and added to the engine prior to the engine test or dye may be added to the engine after the oil fill by adding the dye directly into the engine sump.



Leakage is monitored during and after the "hot-cell" test or after the dynamometer test by examining the engine with a high intensity black light (100-125 W emitting at 365 nm). Leakage is readily detected by the presence of a white-yellow fluorescence caused by the presence of the dye.

Recommended Dosage

The following recommendations are provided as a starting point for typical applications. Actual dosage will depend on desired color strength as well as background color of base material.

Hydraulic & Transmission Fluids	500 to 2000 ppm
Car Engine Oils	500 ppm
Diesel Engine Oils	700 to 2000 ppm

Clean Up

The dye is easily removed from metal surfaces with chlorinated solvents, paraffin oils or by dry wiping.

Packaging Options

The product is available in 18 kilogram pails, and 173 kilogram drums.

Safe Handling Information

See Material Safety Data Sheet for complete list of...

- Hazardous ingredients
- Identified hazards
- First aid measures
- Fire fighting measures
- Accidental release measures
- Handling and storage precautions
- Recommended personal protection equipment

MATERIAL SAFETY DATA SHEETS

Rohm and Haas Material Safety Data Sheets (MSDS) contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products.

Under the OSHA Hazard Communication Standard, workers must have access to and understand MSDS on all hazardous substances to which they are exposed. Thus, it is important that you provide appropriate training and information to your employees and make sure they have available to them MSDS on any hazardous products in their workplace.

Rohm and Haas Company sends MSDS on non-OSHA-hazardous as well as OSHA-hazardous products to both the "bill to" and "ship to" locations of all our customers upon initial shipment (including samples) of all our products (whether or not they are considered OSHA-hazardous). If you do not have access to one of these MSDS, please contact your local Rohm and Haas Representative for an additional copy. Updated MSDS are sent upon revision to all customers of record.

Rohm and Haas Company is a member of the Chemical Manufacturers Association and is committed to the Chemical Manufacturers Association's (CMA) Responsible Care Program.

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