

## **STABILITY OF IRGAROL 1051 AND DIURON ON DISPOSABLE SOLID-PHASE EXTRACTION PRECOLUMNS AND THEIR PRESENCE AT TWO GREEK PORTS**

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### **ABSTRACT**

The stability of irgarol 1051 and diuron was studied for a period of three months on two types of cartridges (C18 and SDVB) stored at -10 °C. Analyses were performed at the 0<sup>th</sup>, 30<sup>th</sup>, 60<sup>th</sup> and 90<sup>th</sup> day by High Performance Liquid Chromatography - Diode Array Detector (HPLC-DAD). The results showed that both substances were equally stable during the storage period tested. Furthermore, water samples were collected from the ports of Rhodes and Mytilene from June 1999 to May 2000. The compounds were extracted by solid-phase extraction and analyzed by HPLC – DAD. The detection limit of the method was 0,014 µg/L for irgarol 1051 and 0,027 µg/L for diuron. Irgarol 1051 was detected in both ports only during the first sampling (June 1999) whereas diuron was detected more frequently and at greater concentrations.