

Issue

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**InfoXENCO**  
July to September 2011

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## 1. **TDI AND MDI DETECTION**

Toluene Diisocyanate (TDI), Dethylene Diphenyl Diisocyanate (MDI) and related compounds have been used in the making of polyurethane polymers. These polymers are used in many products including foam mattresses, bowling balls, adhesives, coatings and spray foams. The exposure to these chemicals poses a potential health risk.

“There has been an increase in recent years in promoting the use of foams and sealants by do-it-yourself energy-conscious homeowners, and many people may now be unknowingly exposed to risks from these chemicals,” said Steve Owens, assistant administrator for EPA’s Office of Chemical Safety and Pollution Prevention. “EPA is working to protect the health of the American people and the environment.”

Not all polyurethane products (such as bowling balls and foam mattresses) are of concern since they are fully reacted or “cured”. However, some products such as adhesives, coatings and spray foams are still reactive while in use and continue to contain “reactive” diisocyanates. The “reactive” diisocyanates are known to cause severe skin and breathing responses following repeated exposure. They have been linked to work-related asthma and the workplace exposure is regulated by the Occupational Safety and Health Administration (OSHA). However there is limited information available for the effects of consumer related exposure.

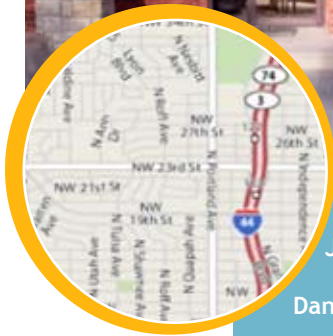
The US EPA has released action plans to address the potential health risks of TDI and MDI. The agency plans to enforce the actions under the guidelines of the Toxic Substance Control Act (TSCA). XENCO Laboratories can determine the levels of TDI and MDI present by the use of a gas chromatograph/ mass spectrometer (GC/MS) analysis following EPA SW846 Method 8270D.

## 2. NEW OKLAHOMA SERVICE CENTER



XENCO Laboratories has recently set up a new office in Oklahoma City to provide a convenient location for our Oklahoma customers.

This facility is under the leadership of our Oklahoma Client Service Representative, Julie Goodwin. Ms. Goodwin has been working in the Client Services Industry for over 20 years and is a great addition to our XENCO Team! This new office is located right off of I-44 between N. Portland Ave. and N. Meridian Ave. at 3825 NW 23rd. This 800 ft<sup>2</sup> facility offers sample receiving, bottle preparation, and value-added services such as complimentary courier deliveries and pick-ups for added convenience to our clients. This facility opens Monday through Friday, 8:00am to 5:00pm and Saturdays by Appointment only.



Contact information:

Julie Goodwin -405-833-3327  
Sales & Technical Info:  
Danielle Winnings-682-552-8912

## 3. HOUSTON INCREASES ITS CAPACITY IN THE WET CHEMISTRY AND METAL AREAS

The Houston facility is experiencing a dramatic growth this summer in the area of Inorganics in order to accommodate the needs of its customers and to attract new business. To that end, we have set up a Microbiology section where the analysis on the following methods can be performed:

- SM9222D Fecal Coliform in non-potable waters
- SM9222B Total Coliform in non-potable waters
- SM9223B Total Coliform, Fecal Coliform, and E. Coli in drinking waters
- SIMPLATE Heterotrophic Plate Count (HPC)

Furthermore, we have included the following methods in Wet Chemistry:

- SM5540C Surfactants (MBAS)

And the following parameters by flow analyzer:

- E351.2 Total Kjeldahl Nitrogen (TKN)

- E350.1 Nitrogen Ammonia (NH3)
- E365.1 Total and Orthophosphorus Phosphorus
- E420.4/SW9066 Total Phenolics
- E335.4/SW9012B Total Cyanides
- E353.2 Nitrite+Nitrate
- SM4500Cl-E Chloride

Along with these improvements, Houston will also be capable of running SW6010/E200.7 metals by ICP. We expect to be fully certified to run these methods by the end of the summer.

## Corpus Christi Service Center:

If you are in the Corpus Christi area and need a sample kit, or would like a courier to pick up your samples please contact Cindy Rangel. She can be reached at 361-207-0757 or by email at [Cindy.Rangel@xenco.com](mailto:Cindy.Rangel@xenco.com), [April.Brandon@xenco.com](mailto:April.Brandon@xenco.com). You can also make arrangements for these services with your Project Manager or local Account Executive

## 4. DoD ELAP - HOUSTON

### XENCO Laboratories Enhances our Involvement in the DoD Environmental Laboratory Accreditation Program (DoD ELAP)

In a continued effort to provide superior customer service to our clients, XENCO has made the necessary investments to assure DoD ELAP accreditation. Almost one year ago, XENCO's laboratory in Atlanta, GA achieved accreditation for a full list of analyses which include organic, inorganic and wet chemistry parameters. Our Houston laboratory has just been awarded its accreditation for an even more extensive list of organic, inorganic and wet chemistry parameters. The combined analytical capabilities of these facilities allow XENCO to provide support to projects throughout the United States. Both facilities have been evaluated by Perry Johnson Laboratory Accreditation, Inc and have accreditation for both ISO 17025 and DoD (certification numbers: L11-54 (Houston) and L10-135 (Atlanta)).

In support of the new accreditations, XENCO has also enhanced our ability to provide reports meeting the DoD Quality Systems Manual for Environmental Laboratories requirements. Our Laboratory Information Management (LIMS) has been enhanced to provide paperless tracking of samples from receipt to disposal. Upon receipt of the sample, a password protected confirmation of the sample's receipt and its' condition is performed. Also, the reporting of supporting documentation has been enhanced to include summary reports which are more concise and easier to review.

The combined abilities of both of XENCO's 17025/DoD accredited laboratories will allow us to provide support for federal and DoD clients throughout the United States. The accreditations (along with the enhanced LIMS abilities) further demonstrates XENCO's commitment to quality analytical services. The dedication, knowledge and desire of all XENCO employees to provide the utmost service and support has again been demonstrated by our ability to achieve these accreditations and to enhance our capabilities.