

Workshop: Introduction to Environmental, Health and Safety (EHS) Issues Relative to Diisocyanates. To be successful in today's polyurethane industry, professionals must understand the fundamentals of regulations related to EHS topics relevant to diisocyanates (i.e., MDI, TDI, HDI, IPDI, and HMDI). This course is developed for professionals who have a desire to understand the fundamental concepts of EHS regulations, industrial hygiene, toxicology, medical surveillance and exposure controls. This knowledge can be used to better understand how to educate people who work with diisocyanates in their safe handling use and to help safeguard our environment.

1. Introduction
 - a. What is Product Stewardship?
 - b. Basic Polyurethane Chemistry
 - c. Physical Properties of Diisocyanates
 - d. Polyurethane Products
 - e. Polyurethane Industry Growth

2. EHS Regulations
 - a. Current Government Activity
 - b. Worker Protection Regulations
 - c. Environmental Regulations

3. Toxicology and Medical
 - a. Toxicology
 - i. Why physical-chemical properties are important considerations
 - ii. Overview of the key toxicology data for diisocyanates and understanding of:
 - major toxic effects of diisocyanates, and
 - differences in toxicity between monomer and polyisocyanates.
 - iii. Emerging issues
 - iv. Resources
 - b. Medical
 - i. Possible adverse health effects of diisocyanate over-exposure
 - ii. Basic concepts of occupational asthma
 - iii. How exposure relates to development of symptoms
 - iv. Importance of medical surveillance

4. PPE and Exposure Control
 - a. Possible Anticipated Exposures
 - b. Exposure Control
 - c. Isocyanate Neutralization and Decontamination
 - d. Dermal Protection
 - e. Respiratory Protection

5. IH Monitoring
 - a. Why monitor for diisocyanates?
 - b. Exposure evaluation
 - c. Types of monitoring

6. Resources