Application Article 217

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PhoCheck+ Detects Toluene Diisocyanate During Foam Mattress Production

Industry: Foam manufacturer

Application: Quality control and safety monitoring

Location: Australia and New Zealand Introduction

A New Zealand based foam manufacturer has purchased PhoCheck+ to detect toluene diisocyanate during the production of foam mattresses.

The company manufacture and supply foam to both industrial and consumer markets. The foam is used by a wide range of industries that include furniture, health care, sports, packaging and transport.

Application

The foam used in mattresses within this application contains a compound called toluene diisocyanate (TDI). TDI is used as a chemical intermediate in the production of polyurethane (foam based) products.

Prior to purchasing PhoCheck+, TDI was routinely monitored by an external contractor as part of the quality control and safety monitoring processes.

Why Detect Toluene Diisocyanate (TDI)?

TDI is a highly toxic compound, both at short term and long term exposure limits and may be fatal if inhaled. A possible human carcinogen, TDI can cause skin, eye and respiratory irritation and potential allergic respiratory and skin reactions. TDI has an OSHA Permissible Exposure Limit (PEL) of 0.02 ppm, 0.14 mg/m3.

Why PhoCheck+ Was Chosen

PhoCheck+ was selected as the only gas detector on the market able to detect toluene diisocyanate.

The purchase of PhoCheck+ has meant the quality control and safety monitoring process has been bought in-house, resulting in significant cost savings to the company. Ease of use and minimal training meant PhoCheck+ was easily integrated into the procedure.

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