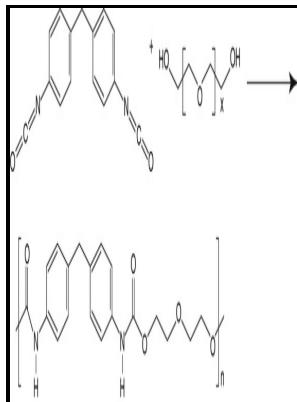


# Non-phosgene approaches to aromatic isocyanates.

University of East Anglia - A novel non



Description: -

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Notes: Thesis (M.Sc.), University of East Anglia, School of Chemical Sciences, 1990.

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## GEM

During polymerisation, isocyanates undergo a number of distinct reactions. A summary of these structures is shown in Fig. Aromatic isocyanates are stiffer in nature resulting in a stiffer polymer chain with tightly packed hard segment and a higher melting point.

## The fire toxicity of polyurethane foams

The increased strength was attributed to the formation of urethane bonds between the coupling agent and the cellulose fibres, and to the improvement of wetting that the PMPPIC coating provides in the composite.

## BJOC

The formation of the carbamate can be conceptualized as the formation of the isocyanate and subsequent stabilization via reaction with the alcohol solvent Fig.

## BJOC

The results are suitable for the application of rPUFs, however, they have not been scaled-up to industrial levels, mainly because one route also included phosgenation. In an attempt to improve the understanding of the thermal decomposition of polyurethanes, Rogau et al. A total of 21 companies agreed to participate in the study, with exposure measurements being collected from 22 sites.

## Non

However, the air monitoring method is not particularly well suited to workplace conditions and the chemical analysis is complex. LC 50 values should be referenced to the fire condition under which they were measured.

## Biological Monitoring for Isocyanates

Further research needs to be performed in this area. These reactions make up the basis of polyurethane chemistry and can be used to tailor

polyurethanes with a range of properties by varying the structure and ratios of the individual components. The highest total metabolite exposure occurred in a casting operator and was found to be 12.

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