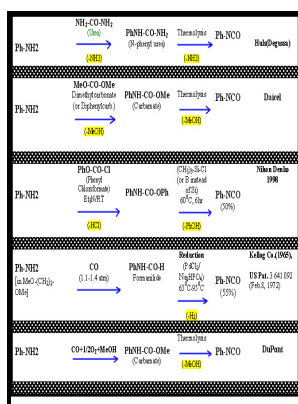


Non-phosgene approaches to aromatic isocyanates.

University of East Anglia - Nonphosgene Routes to TDI



Description: -

-Non-phosgene approaches to aromatic isocyanates.

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A green route to polyurethanes: oxidative carbonylation of industrially relevant aromatic diamines by CO₂

An occupational exposure study of MDI in France suggested a BMGV of 5 µg MDA per g creatinine 2 µmol per mol creatinine. In this study several of the 22 workplaces could have improved their control of isocyanate with relatively simple and inexpensive techniques.

Isocyanates and Polyols

More recent work by Shufen et al. Biological monitoring methods, targeted at urinary metabolites are an acceptable method for assessing control both engineering and behavioural aspects and give direct information on personal exposure.

Non

In recent years, alkyl carbamates, e. In 2005, HSE published a BMGV for isocyanates of 1 µmol of isocyanates-derived diamine per mol creatinine in urine samples collected at the end of exposure. This paper originates from a comprehensive study of isocyanate users in the UK covering the MVR and other industries.

Isocyanates and Polyols

A basic catalyst greatly enhanced the yield of MPC, whereas an acidic catalyst promoted the formation of aniline and methyl carbamate. The catalyzed formation of carbodiimides has been described briefly in Section 23. At high concentrations these acids can cause pulmonary oedema and death Paul et al.

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Both these findings highlight the importance of the role of biological monitoring, demonstrating that although operators airborne exposure may be minimal, significant exposure can occur via other routes such as dermal and ingestion, which would not normally be quantified.

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