

Statement

Star Uretech confirms that our single component adhesives contain zero VOC's and do not require the H351 hazard phrase. Our adhesives are manufactured using MDI isocyanate and in practice, the volatility of MDI is so low that the vapour does not get into the atmosphere.

Health and safety executive guidance (HSE - P43 – Using Isocyanate Based Adhesives) states, "Avoid products using HDI, IPDI and TDI... choose one containing MDI, which is less volatile". It also states, "Respiratory Protective Equipment should not be needed for routine use". Again this is because of the low volatility of the isocyanate.

Vapour Pressures for mono- and oligo-diisocyanates		
Diisocyanate	Vapour pressure (mbar)	Temp
TDI (2,4 and 2,6 isomers)	~0.02	20°C
TDI (20/80 mix of monomers)	~0.01	20°C
HDI	~0.014	25°C
Oligo-HDI formulations	<0.001 to <0.0001	25°C
Oligo-MDI formulations	<0.0001 to 0.00001	25°C
MDI (2,4)	0.00001	20°C
MDI (4,4')	0.00001	20°C
Comparison		
Water	23.4	20°C

This table shows that MDI is two and a half million times less volatile than water and 2000 times less volatile than the other pure isocyanates.

Conclusion

The Uretech range of single component adhesives and coatings contain no free volatile MDI Isocyanates (Zero VOCs) , do not require the H351 (Suspected of causing cancer) risk phrase and do not cause sensitization by skin contact.

Star Uretech Ltd has had biological tests carried out on operatives using their adhesives indoors with no additional ventilation as outlined above and has confirmed that no isocyanate was detected. A copy of this report will gladly be supplied upon request. Star Uretech Ltd recommends the use of protective clothing including gloves and goggles when using the Uretech range of adhesives.

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