



Eco Solutions Technology

presented at

Paint Stripper Forum - Brussels

14 November 2005

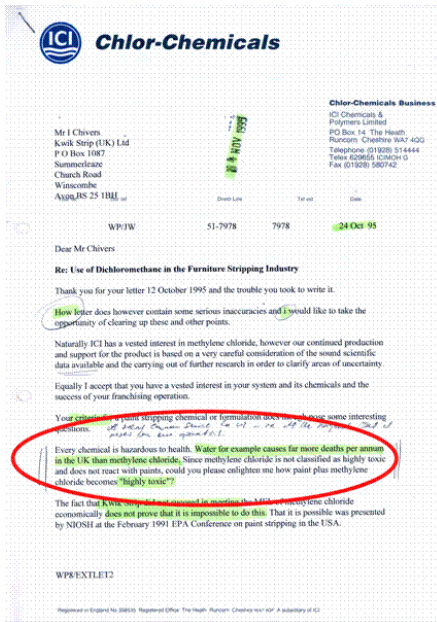
*Ivor Chivers
Director of Eco Solutions Ltd, UK*



History

- **1982 – 1992**
 - *Regular user of DCM paint strippers in the UK with an annual consumption of 300 – 350 tons (The product was formulated with a sophisticated vapour retardant)*
- **January 1992**
 - *Ceased to use DCM completely due to health & safety concerns, including fatalities, illness and high waste disposal cost*
- **October 1993 & April 1995**
 - *HSE audits are well documented in the Safety Management Journal of the British Safety Council*

We decided that neither we and our employees nor our customers would need to work with dichloromethane.



Industry reaction

Our response:
 "Your statement that water for example causes far more deaths per annum in the UK than Methylene Chloride is we believe a totally irresponsible statement. Our answer to your comment is that we would not expect people to attempt to swim in DCM!!"



Our Mission

When others aim for „alternatives“ to DCM

**Eco Solution aims at offering one of the
 „Safest Alternatives“
 to DCM paint strippers**

Our patented paint stripping formulations can consist of up to 80% water, and is based on colloidal science. Products without any „R“ and „S“ phrases and are aimed at mimizing the hazard potential for any private or professional user.



Case Study – 2002 London fatality facts

- On 5 April 2002 BBC News reported that a spill of DCM paint stripper resulted in:
 - 1 fatality
 - 12 hospitalized persons incl. Ambulance and fire brigade personnel.
- The contractor then contacted and purchased Eco Solutions product to complete the project effectively without:-
 - further injuries or health risks
(see letter from UK Health & Safety Executive a government agency)



ETVAREAD FINAL REPORT 01-April 2004

"Effectiveness of vapour retardants in reducing risks to human health from paint strippers containing dichloromethane". Page 10

- A UK -product which (according to the producer) "has a CE mark for safety for use as a children's toy, yet still is effective to be used widely by the consumer, the professional and industrial user" contains according to analyses realised by competitors among other di-basic ester (dimethyladipate ~ 19%, cas-no 627-93-0, not classified in the Annex I of Directive 67/548/EEC; Germany: WGK 1 = slightly water endangering, repeated or prolonged exposure → blurred vision [Bégin 1999]; vapours may form explosive mixture with air; Swiss toxic list category 4) and triethylphosphate ~ 11%, cas-no 78-40-0, labelling Xn, R22). The paint stripping performance is according to the producer very good, according to competitors and some clients not satisfying.



Conclusion

- **Despite the arguments of DCM paint stripper producers that**
 - Safe alternatives are not available
 - Alternative paint removers are slow reacting
 - Alternative paint removers are expensive
 - Alternative paint removers can damage the substrate
- **The Eco Solution technology is now used by**
 - 3 manufacturers in the UK
 - 1 manufacturer each in Europe, the USA and Canada

..to manufacture new innovative paint removers , offering increased safety for consumers and trades people worldwide.



There is a better life after DCM!



4 'With a lick of paint the doorway now looks great. I used the Home Strip; a scraper, £3.29; comb shave hook, £3.59, and dust sheet, £4.99, all from Great Mills.'





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