Chemicals for which analytical methods are given include:

- Volatile organic compounds (four methods
- Organocholine, pesticides and PCBs (two methods)
- Aldehyde and ketones
- Phosgene
- N-nitrosodimethylamine
- Phenol and cresols
- Dioxin
- Formaldehyde
- Non-methane organics
- Benzo[a]pyrene

GARY F. BENNETT

Alternative Formulations and Packaging to Reduce Use of Chlorofluorocarbons (CFCs), by T.P. Nelson and S.L. Wevill, Noyes Data Corp., Park Ridge, NJ, 1990, ISBN 0-8155-1257-0, 361 pp., \$ 62.00.

Like many Noyes Data Corporation books, this one is the combination of two reports written for the U.S. Environmental Protection Agency (EPA). Both reports were prepared for the U.S. EPA by the above-noted authors who are members to the Radian Corporation.

In this book, the authors describe alternative formulations and packaging techniques for the reduction or elimination of chlorofluorocarbons' (CFCs) use as an aerosol propellant. Part I of the book gives background information on the issue of stratospheric ozone degradation and an overview of technically feasible methods for reducing CFCs in aerosol products without adverse effect on human life and health, military preparation and the economy. Part II (actually the second of the two reports) discusses industry experience in converting to alternative formulations. Detailed non-CFC formulations are provided for 28 categories of aerosol products. Special equipment may be needed to include these formulations in aerosol containers and the need is discussed along with a variety of alternative dispensing devices. Advantages to, and drawbacks of, these devices are discussed in detail and examples of consumer products which have successfully utilized these alternative products are given.

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