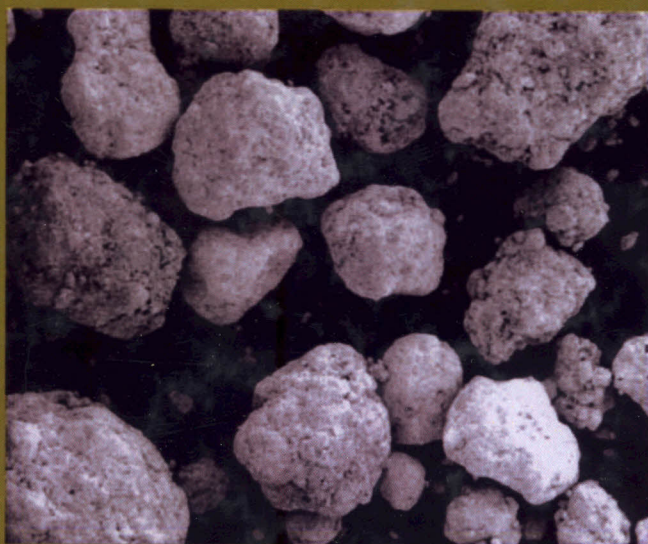


surfactant science series
volume **82**

HANDBOOK OF DETERGENTS



Part A: Properties

edited by
Guy Broze

Contents

Handbook Introduction iii

Preface v

Contributors ix

1. Detergents: Technical and Practical Challenges 1
Guy Broze
2. Surfactants: Classification 7
Louis Oldenhove de Guertechin
3. Surface Activity 47
Patrick Durbut
4. Surfactant Solubility 99
Robert G. Laughlin
5. Anionic-Cationic Surfactant Mixtures 133
Ammanuel Mehreteab
6. Polymer-Surfactant Interactions: Their Behavior at the Solid-Liquid Interface 157
Anne-Marie Misselyn-Bauduin
7. Emulsions 181
Alain Jacques
8. Microemulsions 253
Jean-Louis Salager
9. Equilibrium and Dynamics of Surfactant Adsorption Monolayers and Thin Liquid Films 303
Krassimir D. Danov, Peter A. Kralchevsky, and Ivan B. Ivanov
10. Foam in Consumer Products 419
Germaine Zocchi
11. Surfactant Interactions with Skin 433
Thomas G. Polefka

12. Models for Studying Surfactant Interactions with the Skin 469
Marc Paye
13. Properties of Builders: Nonphosphate Builders 511
Daniel Joubert, Robert Gresser, and Jean-Pierre Cuif
14. Polymers in Detergents 559
Paolo Zini
15. Oxygen Bleaches 597
Vince Croud
16. Hypochlorite Bleach 619
John A. Church
17. Applications of Hypochlorite 631
Michel Julémont
18. Detergent Enzymes: A Challenge! 639
André Crutzen and Miriam L. Douglass
19. Perfumes in Detergents 691
John Ramsbotham
20. The Use of Colorants in Soaps and Detergents 721
Robert L. Mahaffey, Jr.
21. Disinfection and Preservation in Detergents 743
Françoise Siquet
22. Rheological Modifiers for Aqueous Solutions 757
Amjad Farooq
- Index* 787