



Eucalyptus (Medicinal and Aromatic Plants - Industrial Profiles)

John J.W. Coppen

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Eucalyptus, a genus of over 800 species, is a multiproduct crop par excellence. Not only is it grown for timber, pulp and fuelwood, but it has numerous medicinal and aromatic properties. Since the first commercial distillation of eucalyptus oil 150 years ago, a vast array of eucalyptus-based products has entered the marketplace, mainly for pharmaceutical, fragrance and flavor use. Eucalyptus provides an invaluable reference for all those with an interest in Eucalyptus - in academia and industry alike, for researchers as well as producers, processors, importers and end users - but there are also issues discussed and lessons learned that extend to medicinal and aromatic plants. Contents Part 1. General Aspects 1. Botany of the Eucalypts 2. Eucalyptus, Water and the Environment 3. Eucalypts in Cultivation: An Overview 4. Genetic Improvement of Eucalypts: With Special Reference to Oil-Bearing Species 5. Eucalyptus Chemistry 6. Distillation of Eucalyptus Leaf Oils. Theory and Practice Part 2. Cultivation and Production of Eucalypts Around the World: With Special Reference to the Leaf Oils 7. Cultivation and Production of Eucalypts in Australia: With Special Reference to the Leaf Oils 8. Cultivation and Production of Eucalypts in the People's Republic of China: With Special Reference to the Leaf Oils 9. Cultivation and Production of Eucalypts in Africa: With Special Reference to the Leaf Oils 10. Cultivation and Production of Eucalypts in South America: With Special Reference to the Leaf Oils 11. Cultivation and Production of Eucalypts in India: With Special Reference to the Leaf Oils Part 3. Biological and End-Use Aspects 12. Chemistry and Bioactivity of the Non-Volatile Constituents of Eucalyptus 13. Antimicrobial Activity of Eucalyptus oils 14. Eucalyptus in Insect and Plant Pest Control: Use as a Mosquito Repellent and Protectant of Stored Food Products; Allelopathy 15. Chemical Ecology of Herbivory in Eucalyptus: Interactions Between Insect and Mammalian Herbivores and Plant Essential Oils 16. Eucalyptus Oil Products: Formulations and Legislation 17. Production, Trade and Markets for Eucalyptus Oils 18. Research Trends and Future Prospects Appendices: 1. Sources of Eucalyptus Seed 2. Estimates of Eucalypt Plantations Worldwide 3. Advice to a Prospective New Producer of Eucalyptus Oil or Other Leaf Extractive 4. Composition of Some Commercially Distilled Eucalyptus Oils 5. Quality Criteria and Specifications of Eucalyptus Oils 6. Packaging and Labeling Requirements for the Handling and Transportation of Eucalyptus Oils 7. Useful Addresses Contributors Ian R. Calder, University of Newcastle, UK John W. Turnbull and Trevor H. Booth both at CSIRO Forestry and Forest Products, John C. Doran, CSIRO Forestry and Forest Products, Australia, Joseph J. Brophy, University of New South Wales, Australia, Mr E.F.K. Denny, Denny, McKenzie Associates, Australia, Geoffrey R. Davis, G.R. Davis Pty Ltd, Australia, Shaoxiong Chen, China Eucalypt Research Centre, Paul A. Jacovelli, UK Laercio Couto, Universidade Federal de Vicosa, Brazil, S.S. Handa, R.K. Thappa and S.G. Agarwal, Regional Research Laboratory, India, Takao Konoshima and Midori Takasaki, Kyoto Pharmaceutical University, Japan, Stanley G. Deans, Scottish Agricultural College, UK, Peter Golob, University of Greenwich, UK, Hiroyuki Nishimura and Atsushi Satoh, Hokkaido University, Japan, Ivan R. Lawler, James Cook University of Queensland, Australia, William J. Foley, Australian National University, Judi Beerling, Steve Meakins and Les Small, Quest International, UK, John J.W. Coppen, UK, Erich V. Lassak, Phytochemical Services, Australia

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