# Seventh Edition

# Cosmede Cosmedia



Edited by: J.B. Wilkinson

R.J. Moore



# Harry's Cosmeticology

# Authors and revisers include the following:

P. Alexander, BSc, CChem, FRSC (Unilever Ltd)

S. F. Bloomfield, BPharm, PhD, MPS (Chelsea College)

C. Bouillon, Docteur ès-Sciences (L'Oreal)

R. J. Clarkson, LRSC, MInstPkg (Roure Bertrand Dupont)

F. J. G. Ebling, DSc, PhD, FIBiol (University of Sheffield)

R. A. Gunn-Smith, MInstPkg (Metal Box Ltd)

B. Jayasekara, BPharm (Ceyl), DipBact, MRSH (Yardley of London Ltd)

G. Kalopissis, Docteur ès-Sciences (L'Oreal)

R. E. Leak, BPharm, MPS (Chelsea College)

J. R. Nixon, BPharm, PhD, MPS (Chelsea College)

W. E. Parish, MA, PhD, BVSc, FRCPath (Unilever Research)

R. P. Reeves, CChem, FRSC (Consultant)

P. M. Scott, MInstPkg (Avon Cosmetics Ltd)

H. Smith, BTech, PhD (formerly of Elida Gibbs Ltd)

J. Thompson, BSc, PhD (formerly of Wilkinson-Match Ltd)

K. Tomlinson, BA, MSc, CChem, FRSC (formerly of Colgate-Palmolive Ltd)

D. A. Wheeler, BSc, MSc, CChem, MRSC (Elite Assembly Co.)

### Patents

In this book, the patent literature has been treated as a source of information. Certain formulae and processes have been included in the interests of science, notwithstanding the existence of actual are retained material related sinkly.

the existence of actual or potential patent rights.

Mention of a patent does not necessarily indicate that the patent is currently in force, but in so far as materials and processes are protected by letters-patent, their inclusion neither conveys nor implies licence to manufacture. Each manufacturer should ascertain for himself the patent position existing in his own country at that time.

Legislation

Legislation concerned with permitted materials, limitations on use and methods of sale of toilet preparations is in a state of continual change, notably in the USA and the European Economic Community. While every effort has been made to take count of the latest position, inclusion of a particular ingredient in any one illustrative formula cannot be taken as indicating that this formula will be within the limits of legal permission in any one country at the time when it may be under consideration. As with patents (above) every manufacturer must ascertain for himself the legal position existing in his country or that to which he exports at that time.

# Harry's Cosmeticology

Seventh edition

Edited by

J. B. Wilkinson, MA, BSc, CChem, FRSC R. J. Moore, BSc, CChem, MRSC, MIInfSc



Longman Scientific & Technical
Longman Group Limited,
Longman House, Burnt Mill, Harlow,
Essex CM20 2JE, England
and Associated Companies throughout the world

## © 1982 by George Godwin

All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the Publishers, or a licence permitting restricted copying in the United Kingdom issued by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London W1P 9HE.

First published in New York 1940 by Leonard Hill Books
Second edition (London) 1944
Third edition (New York) 1947
Fourth edition (London) 1955
Fifth edition (London) 1962
Sixth edition (London) 1973
Seventh edition published in Great Britain 1982 by George Godwin Reprinted by Longman Scientific & Technical 1987, 1989, 1994

## British Library Cataloguing in Publication Data

Harry, Ralph G.
Harry's cosmeticology—7th ed.
Cosmetics 2. Toilet preparations
I. Title II. Wilkinson, J. B. III. Moore, R. J.
The state of the stat

### ISBN 0-582-00553-1

Produced by Longman Singapore Publishers Pte Ltd Printed in Singapore

# **Preface**

The usefulness of Harry's Cosmeticology as a compact but comprehensive source book is confirmed by its continuing popularity in all parts of the world: we are confident that this seventh edition will, once again, meet a warm welcome.

We have endeavoured to maintain the book's overall scope and style to the pattern that appears to be appreciated by readers, telling not only 'what' but also 'why'. References to sources of more detailed information are freely provided, but we have not attempted to produce in a single work a compendium of exhaustive textbooks. The contributors to this new edition are drawn from an exceptionally wide range of companies and academic sources; we thank all concerned for their

cooperation in producing a unified work.

There have been the usual problems of decision about areas of cosmetic science or technology that are currently in a state of change, whether by reason of, say new scientific discoveries or of impending legislation. Our general rule has been to eschew arbitrary assumptions about the future, but to present the situation as seen at the time of going to press. We know that, inevitably, we will be found somewhere to have been overtaken by events and readers will never be absolved from the task of checking the latest legal or patent situation as it affects their use of the information given.

In the Preface to the sixth edition we hazarded an opinion that major scientific advances would affect the development of pure cosmetics. Regrettably, this has been a slow dawn and we find no justification for any changes in these particular areas; the older formulae are part of the necessary historical background moreover, to regard the latest as necessarily the best is a fallacy. In all other parts of the book there has been substantial rewriting and updating. The sequence of chapters has been made more logical, and new chapters have been added on good manufacturing practice and on that most important of ingredients, water.

Above all, the basic chapters on the skin, the tooth, the hair and the nails have been completely rewritten so as to provide a really up-to-date scientific background. In this connection it is appropriate to stress, in the words of an earlier edition, that we deal with the 'normal abnormalities' and are concerned with 'those deviations from the norm of skin, hair and teeth occurring or tending to occur under the normal daily stresses of work, wear, dirt, exposure and climate, and not excluding psychological stress'.

Thanks are due, as ever, to suppliers of copyright material who have given us permission to use it, in particular many of the illustrations. We are delighted to have had the continuing support of the original author, Mr R. G. Harry, to whom we offer our sincere gratitude for the initiative he took so many years ago.

> J. B. W. R. J. M.