





**THE CHEMICAL FORMULARY**



# The Chemical Formulary

*A Collection of Valuable, Timely, Practical  
Commercial Formulae and Recipes for  
Making Thousands of Products in  
Many Fields of Industry*

VOLUME VI

*Editor-in-Chief*

H. BENNETT



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## P R E F A C E

Chemistry as taught in our schools and colleges is confined to synthesis, analysis and engineering—and properly so. It is part of the proper foundation for the education of the chemist.

Many a chemist on entering an industry soon finds that the bulk of the products manufactured by his concern are not synthetic or definite chemical compounds but are mixtures, blends or highly complex compounds of which he knows little or nothing. The literature in this field, if any, may be meagre, scattered or antiquated.

Even chemists, with years of experience in one or more industries, spend considerable time and effort in acquainting themselves on entering a new field. Consulting chemists, similarly, have problems brought to them from industries foreign to them. A definite need has existed for an up-to-date compilation of formulae for chemical compounding and treatment. Since the fields to be covered are many and varied, an editorial board was formed, composed of chemists and engineers in many industries.

Many publications, laboratories, manufacturing companies and individuals have been drawn upon to obtain the latest and best information. It is felt that the formulae given in this volume will save chemists and allied workers much time and effort.

Manufacturers and sellers of chemicals will find in these formulae new uses for their products. Non-chemical executives, professional men and others, who may be interested, will gain from this volume a "speaking acquaintance" with products which they may be using, trying, or with which they are in contact.

It often happens that two individuals using the same ingredients in the same formula get different results. This may be the result of slight deviations or unfamiliarity with the intricacies of a new technique. Accordingly, repeated experiments may be necessary to get the best results. Although many of the formulae given are being used commercially many have been taken from patent specifications and the literature. Since these sources are often subject to various errors and omissions, due regard must be given to this factor. Wherever possible it is advisable to consult with other chemists or technical workers regarding commercial production. This will save time and money and avoid "headaches."

It is seldom that any formula will give exactly the results which one requires. Formulae are useful as starting points from which to work out one's own ideas. Formulae very often give us ideas which may help us in our specific problems. In a compilation of this kind errors of omission, commission and printing may occur. We shall be glad to receive any constructive criticism in this, our first attempt.

To the layman, it is suggested that he arrange for the services of a chemist or technical worker familiar with the specific field in which he is interested. Although this involves an expense it will insure quicker and better formulation without wastage of time and materials.

H. BENNETT



## PREFACE TO VOLUME VI

Additional new formulae have been gathered to compile a sixth volume of the *Chemical Formulary*—an addition which will broaden and bring up-to-date the contents of volumes I, II, III, IV and V. Because the board of editors feels that information of this nature, to be most helpful, should be released as soon as possible and since we have had hundreds of inquiries as to when Volume VI would be ready, an early publication date was decided upon.

Special elementary formulae of direct and indirect military interest have been included. A chapter on substitutes for scarce materials is an innovation which may be of interest and use to many.

Schools and colleges in increasing numbers seem to find it advisable to use the *Chemical Formulary* as an aid in promoting a practical interest in chemistry. By its use, students learn to make cosmetics, inks, polishes, insecticides, paints and countless other products. The result is that chemistry becomes an extremely interesting practical and useful subject. This interest often continues even when the students reach the theoretical or more difficult phases of this subject.

Since some mature users of this book have not had the good fortune to have had previous training or experience in the art of chemical compounding, the simple introductory chapter of directions and advice has been repeated. This chapter should be studied carefully by all beginners (and some more experienced workers) and some of the preparations given therein should be made before attempting to duplicate the more complex formulae in the succeeding chapters.

An enlarged directory of sources of chemicals and supplies has been added. This should prove useful in locating new as well as old materials and products.

It is a sincere pleasure to acknowledge the valuable assistance of the members of the board of editors and others who have given of their time and knowledge in contributing the special formulae which have made this volume possible.

H. BENNETT

### NOTE

All the formulae in volumes I, II, III, IV, V and VI (except in the introduction) are different. Thus, if you do not find what you are looking for in this volume, you may find it in one of the others.



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2. Water "Insoluble"	
Rubber Cement; Oil-Well Cement; Acid-Proof Cement; Alkali-Proof Adhesive; Plywood Adhesive; Boat Cement; Vacuum Cement; "Nylon" to Rubber Cement; "Vinylite" Cement; Nitrocellulose Cement; Cross-Hair Cement; Dental Cement; Fiber Container Adhesive; "Hycar" Cement; Thermosetting Cement; Rubber-Bitumen Cement; Woodjoining Adhesive; Laminating Adhesive; Compositing Cement; Celluloid to Wood Cement; Luminous Adhesive; Belting Paste; Roofing Cement; Pipe-Leak Cement; Stone Repair Cement; Synthetic Rubber to Metal Adhesive; Engine Joint Seal; Glass to Metal Cement; Chloroprene to Metal Adhesive; Paper to Aluminum Adhesive; "Bakelite" Putty; Magnesium Putty; Caulking Composition; Cork to Metal Adhesive; Gas-Tight Valve Seal; Vacuum Tube Seal; Canvas to Wall Adhesive; Household Cement; Flypaper.	
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