

*Bennett's*

**COSMETIC FORMULARY**

**COMPILED BY**

**Editorial Staff, Chemical Publishing Co., Inc.**

**CHEMICAL PUBLISHING CO., INC.**

New York

1993

© 1993

CHEMICAL PUBLISHING CO., INC.

*Printed in the United States of America*

## CONTRIBUTORS

Amerchol Corp. . . . .	Edison, NJ
Croda Inc. . . . .	Edison, NJ
Gattefosse Corp. . . . .	St. Priest Cedex, France
W. R. Grace & Co. . . . .	Lexington, MA
McIntyre Group, Ltd. . . . .	Chicago, IL
Mona Industries, Inc. . . . .	Paterson, NJ
Frank B. Ross Co., Inc. . . . .	Jersey City, NJ
Sutton Laboratories, div. GAF Chemicals . . . . .	Chatham ,NJ
Union Carbide Corp. . . . .	Danbury, CT
R.T. Vanderbilt Co. . . . .	New York, NY

## TABLE OF CONTENTS

Contributors	IV
Preface	V
Introduction	VII
I. Antiperspirants and Deodorants	1
II. Hair Products	6
III. Bath Preparations	94
IV. Face and Hand Cleaners	111
V. Makeup	133
VI. Creams and Lotions	143
VII. Mouth Preparations	221
VIII. Perfumes and Colognes	228
IX. Shaving Preparations	239
X. Sunscreen/Tan Products	250
XI. Baby Products	268
XII. Miscellaneous	271
Appendix	281
Incompatible Chemicals	281
Safety in the Laboratory or Home workshop	283
Aerosols	288
Trademark Chemicals	294
Trademark Chemical Manufacturers	297
Index	299

## PREFACE

In 1990 we lost our oldest and most prestigious author and friend, Harry Bennett at age 95. He is sorely missed.

It was his wish that the "COSMETIC FORMULARY" continue with or without him. Our editorial staff has put together this volume, and shall continue to do so without making any changes in style or presentation.

We quote Harry Bennett from an earlier edition. "The purpose of this book is to correlate the most practical, up-to-date information and formulas in the cosmetic and allied fields. Since the knowledge in these fields is largely empirical, theories and opinions should be taken with the proverbial grain of salt. No two chemists or manufacturers will agree exactly on any formula. It is manifestly impossible to suit everyone. A formula is useful essentially as a starting point or as the source of an idea.

Although the manufacture of cosmetics in general is often an elaborate procedure, the technique is more manual than creative. Most cosmetic products can be prepared by the average person provided with a formula and common sense. If a procedure results in disappointment, it may be assumed that the trouble is due to improper technique, incorrect or impure quantities or materials, lack of knowledge of the specific properties of certain ingredients, or perhaps failure to realize that the product conforms only to specific and not to general requirements.

The creation of new formulas and new products is restricted, of course, to the specialist. Given a satisfactory formula, anyone can successfully produce a batch of cold cream, but to alter that cream, to modify its properties in conformity with certain desired ends, requires knowledge and experience. Although the whys and wherefores of cosmetic formulation were originally founded on tradition and based on rule-of-thumb experiments, with seemingly little rhyme or reason, the number of chemists employed in the cosmetics industry is steadily increasing. Cosmetics manufacturers are beginning to realize more and more the value of the chemist. Those who cannot engage a fulltime chemist are turning to

with less tendency to deteriorate, and they are in a position to keep up with new developments.

Educational institutions, which in the past have paid little heed to this industry, are now aware of its importance. Many high schools are giving simple courses in making cosmetics in connection with their domestic science courses. Colleges, too, are awakening and preparing students to take their places in this tremendous industry.

It is hoped that this text will prove a starting point for education in the field of cosmetics manufacture. The editors will appreciate suggestions and criticisms from readers of this work with a view to extending its usefulness in further editions."

Grateful acknowledgment is made to the Contributors for their valuable suggestions and contributions.

CHEMICAL PUBLISHING CO., INC.

## INTRODUCTION

### *Manufacturing Cosmetic Products*

A major portion of cosmetic products can be manufactured by using relatively inexpensive laboratory equipment. Many formula procedures only require some combination of mixing, pulverizing, and heating. The chemist can therefore experiment with a variety of formulas without a substantial outlay of money.

It is always important to practice good housekeeping in the laboratory to keep the ingredients and the final product unadulterated. If the product requires a preservative, use an adequate amount so the cosmetic will not have too short a shelf life.

Choosing the appropriate package for the product is a practical consideration. The packaging should be based on the nature of the product itself. Where is it going to be used? If it is going to be carried in a handbag, or used at a dressing table, the container should possess some aesthetic qualities. If the product is highly perishable the container should incorporate the protective qualities that are essential to the product's maintenance.

### *Legal Considerations*

In the United States, cosmetic manufacture and trade were brought under government regulation for the first time by the Federal Food, Drug, and Cosmetics Act of 1938, which today under the Federal Trade Commission and the Food and Drug Administration protects the consumer against the sale of adulterated, dangerous, or mislabeled cosmetics.

The Food and Drug Administration regulates the use of cosmetic pigments (organic and inorganic colorants). If an organic colorant is labeled D & C certified colorant, it can't be used in food or areas on or around the eyes. It can be used in lipstick, rouge, face powder, nail

approved and listed by the Food and Drug Administration for cosmetic use, they can be included in all the cosmetic products already mentioned and also in eye preparations.

## IMPORTANT

The use of FD & C Red No. 2 has been banned in some countries. Check for an appropriate legal substitute.

*The information contained in this book is presented in good faith, and we believe it to be correct. However no warranty as to accuracy of results or fitness for a particular use is given, nor is freedom from patent infringement to be inferred except as expressly noted. It is offered solely for your consideration.*



# Chapter I

## ANTIPERSPIRANTS AND DEODORANTS

### Roll-On Antiperspirant

#1

A	VEEGUM HV	1.00
	Deionized Water	29.00
B	Glyceryl Stearate (and) PEG-100 Stearate	8.00
C	Aluminum Zirconium Tetrachlorohydrate GLY, 30% Soln.	33.00
	Aluminum Chloride, 32° Baume Soln.	5.50
	Aluminum Chlorhydrate, 50% Soln.	16.50
D	Cyclomethicone	7.00
E	Fragrance, Dye, Preservative	q.s.

Add VEEGUM HV to water at 75° C and mix with maximum available shear until smooth, uniform and completely free of undispersed particles. In another container, heat B to 75° C. Heat C to 55° C in a third container. Add B to A with slow mixing and cool to 50° C. Add C to A & B. Mix at slow speed until the temperature reaches 25° C. Add D and homogenize for 5 minutes. Add E. Mix until uniform and package.

**CONSISTENCY:** Viscosity measured after 30 days at room temperature is 600-800 cps using Brookfield Model LV, Spindle 3 at 60 rpm. pH: 3.3-3.7.

**SUGGESTED PACKAGING:** Roll-On Containers

## #2

<b>A</b>	VEEGUM	1
	Water	51
<b>B</b>	ARLACEL 165	8
<b>C</b>	Chlorhydrol	20
	Water	20
	Preservative	q.s.

Add the VEEGUM to the water slowly, agitating continually until smooth and heat to 70° C. Heat (B) to 75° C. and add to (A). Mix until 50° C. Dissolve the Chlorhydrol in the Water and heat to 50° C. Add (C) to other components. Mix until cool.

## #3

1.	Water (deionized)	50.9
2.	Sequestrene NA2	0.1
3.	Propylene Glycol U.S.P.	3.0
4.	BENTONE™ LT	0.5
5.	ARLACEL 165	7.5
6.	CERASYNT 840	2.5
7.	Methylparaben U.S.P.	0.2
8.	Perfume	0.3
9.	Chlorhydrol (50% sol'n)	35.0

Add items (1), (2), and (3) to a suitable stainless steel steam jacketed kettle and heat to 60°C. Using a homomixer at medium speed (1200 rpm), add item (4), and mix for 20 minutes until well dispersed. Add to this mixture item (5), (6), and (7) and heat to 75°C while stirring slowly. When waxes are completely melted, remove heat and stir at medium speed. Add item (8) at 50°C and mix in. Add item (9) slowly at 45°C and mix in. Continue stirring until lotion reaches room temperature (avoid unnecessary air entrapment).

### Antiperspirant Gel

<b>A</b>	BRIJ 56	15.0
	BRIJ 98	10.0
	Mineral Oil	5.0
<b>B</b>	Chlorhydrol 50% W/W Solution	40.0
<b>C</b>	Aluminum Chlorhydroxy Allantoinate	0.3
	Distilled Water	29.2
<b>D</b>	Perfume Oil	0.5

Slowly stir (B) at 80° C into (A) at 80°C. Add (C) heated to 70°C. and at 50° C. add (D).

### Antiperspirant Cream

#1

<b>Part A</b>	Mineral Oil	10.0
	IONOL C.P.	0.1
	MONAMID 150-IS	2.0
<b>Part B</b>	Chlorhydrol 50%	40.0
	MONAWET SNO-35	1.4
	Water, deionized	46.5

Mix Part A and Part B separately, in the order listed, then add Part B to Part A with rapid mechanical stirring. This cream is a heavy, water-in-oil emulsion which has excellent stability.

	No.2	No.3
Sodium Aluminum Chlorhydroxy Complex (40% solution)	50.0	50.0
Specially Denatured Alcohol	42.0	42.0
Propylene Glycol	3.0	3.0
Sodium Stearate	6.0	
Sodium Hydroxide		0.75
Stearic Acid		5.25
Water		2.0
Perfume	q.s.	q.s.

The aqueous Aluminum Salt Solution is heated to 60-65° C. and the Alcohol and Propylene Glycol slowly added with agitation and added heat to maintain the temperature. The sodium Stearate is added with stirring until the soap dissolves. The Perfume is finally added and, after thorough mixing, the solution is poured into molds.

In the second mixture, with Sodium Stearate formed in situ, the Stearate Acid is dissolved in the warmed Alcohol, the Sodium Hydroxide is dissolved in the Water and the alkali solution is about the same temperature which is added with stirring. the formulation of the soap takes place rapidly and after slight cooling the Perfume is mixed in the solution poured into molds. There is little or no difference in result if the alcoholic solution is added to the aqueous or vice versa, but Stearic Acid must be dissolved in the Alcohol and the alkali in water.

## # 4

*(Oil -in-Water)*

A	Stearic Acid (triple pressed)	14
	Beeswax	2
	Mineral Oil	1
	ARLACEL 60	5
	TWEEN 60	5
B	Water	33
C	Aluminum Chlorhydroxide (50% aqueous solution)	40
	Perfume	q.s.

Heat (A) to 85° C, (B) to 85° C. Add (B) to (A) while stirring. Mix while cooling to 40° C. Add (C) and continue mixing until cool.

## # 5

*(Oil-in-Water)*

A	Cetyl Alcohol	5
	ARLACEL 165	5
B	Water	50
	Aluminum Chlorhydroxide (50% aqueous solution)	40

Heat (A) to 70° C, (B) to 72° C. Add (B) to (A) with agitation. Stir until cream has set.

### Deodorant Stick

<b>A</b>	VANSEAL CS	30.0
	Sodium Hydroxide (20% sol'n.)	2.0
	Cetyl Alcohol	21.4
	Glycerin	4.0
<b>B</b>	Carbowax 6000	16.8
	Stearic Acid	20.0
	Propylene Glycol	5.3
<b>C</b>	VANCIDE TBS	0.5

Blend (A) over low heat until melted. Add (B) to (A) stirring over low heat until melted. Add (C) stirring until VANCIDE TBS goes into solution. Pour into stick mold while hot and allow to cool.

# Chapter II

## HAIR PRODUCTS

### Shampoo

#1

*(High Performance Family)*

	% Weight	% Active
Water, preservative	28.3	-
Hexylene Glycol	1.0	-
MONAMATE OPA-30	35.0	9.5
Alpha Olefin Sulfonate (40%)	15.3	6.1
MONATERIC LMM-30	<u>20.4</u>	
<u>6.1</u>	100.0	21.7

Add ingredients in order listed while blending.

Properties:

pH adjusted to 6.6 Viscosity = 1800 cps.

#2

*(Basic Family)*

	% Weight	% Active
Water and preservative	48.7	

## HAIR PRODUCTS

7

Alpha Olefin Sulfonate (40%)	25.0	10.0
MONATERIC CDX-38	<u>26.3</u>	<u>10.0</u>
	100.0	20.0

Add ingredients in order listed and blend.

Properties:

pH adjusted to 7.0 Viscosity = 20,000 cps

#3

MACKAM J	12.50
Sodium Lauryl Ether Sulfate 60%	6.60
MACKAMIDE C	2.60
DL Panthenol	0.10
Botanical Extracts Blend	q.s.
Citric Acid (Desired pH level as 1% solution)	q.s.
Methyl Paraben	q.s.
Fragrance, Deionized Water	q.s.
MACKSTAT DM	
Sodium Chloride (if necessary only)	q.s.

Blend together at 40 degrees C. with slow mixing to avoid aeration.

Properties:

pH:	6.0
Solids:	12.0
Viscosity:	5300 cps

#4

(All Purpose)

MACKADET SBC-8	20.0
Sodium Chloride	qs
MACKSTAT DM	qs

# INDEX

## A

- After Bath Lotion, Deep Moisturizing, 110
- After Bath Splash, 109
- Aftershave Preparations, 244-249
  - Balm, 249
  - Clear, Viscous, 246
  - Conditioner, 244
  - Moisturizer, 247
  - Non-tacky, 248
  - Soother, 248
- After Sun Care Lotion, 267
- Antiperspirants, 1-4
  - Cream, 3
  - Gel, 3
  - Oil-in-Water, 4
  - Roll-on, 1

## B

- Baby Products, 268-270
  - Bubblebath, 268
  - Cream, 269
  - Lotion, 270
  - Shampoo, 268
  - Wash, 270
- Bath Bar, 94
- Bath Beads, 99
- Bath Gel, 100-103
  - Clear, 101
  - Emollient, 103
  - Natural Lipid Protein, 102
  - Silk Protein, 102
- Bath Liquid Creme, foaming, 106
- Bath Lotion, 107
- Bath Oil, 103-106
  - Foaming, 105, 106

- Bath Preparations, 94-110
  - Salts, 99
- Bio Complex, 272
- Bleach Cream, 274
- Blush, Pressed Powder, 135
- Body Cleanser, 116-118
  - Clear, 116
  - Mild, 118
  - Pearlescent, 117
- Body Wash, Non-defatting, 95
- Bubble Bath, 97-99
  - Concentrate, Anhydrous, 99
  - Low Cost, 98
  - Viscous, 98

## C

- Cleanser, Body, 124
  - Gel, 123, 124, 131
  - Hand, 124, 126, 127, 129, 132
    - Germicidal, 130
    - Pumice, 129
    - Wall Dispenser, 132
    - Waterless, 131
  - Liquid, 123
  - Lotion, 123
  - Skin, 124
- Cologne, 235
  - Stick, 236
- Color Base, Standard, 236
- Color Mixture, 237
- Creams 143-178, 274
  - All-Purpose, 143
  - Almond, 157
  - Apricot, 159
  - Bleach, 274
  - Body, 148
  - Cleansing, 149-156



Anti-Bacterial, 155  
 Glossy, 150  
 Heavy Duty, 154  
 Rinsable, 151  
 Soap-free, 150  
 Washable, 152  
 W/O, 153, 154  
 Coconut Oil Base, 148  
 Cold, Jojoba oil, 172  
   Collagen, 157  
   Liquid, 218  
 Dry skin, 165  
   All Purpose, 167  
   O/W, 166  
   W/O 167, 168  
 Emollient, 145, 164  
 European Performing, 173  
 Firm, 146  
 Hand, 148, 176-178  
   Firm, 177  
   Protective, 178  
   Soft, 176  
 Humectant, 172  
 Moisturizing, 168-171  
   Deep, 170  
   Replenishing, 171  
 Night, 159-162  
   Glossy, 162  
   Moisturizing, 161  
   Nourishing, 174, 175  
 Pearlescent, 147, 157  
 Protein, 163  
 Shaving, 231  
 Silicone-liquid, 146  
 Skin-care, 163, 164, 174  
   Conditioning, 174  
   Daily, 164  
   Emollient, 164  
 Curl Activator, 90  
   Gel, 90  
 Cuticle Softener Concentrate, 278

**D**

Denture Cleaner, 224  
   Tablet, 225  
 Deodorant Stick, 5  
 Depilatory Cream, 274  
   Lotion, 215  
 Dusting Powder, 273

**E**

Emulsion, Fluid, 271  
   O/W, 271  
   W/O, 271  
 Eye Gel, 140  
 Eye Shadow, 140

**F**

Face and Hand Cleaners, 111-132  
 Face Mask, 276-278  
   Clay, 277  
   Creamy, 277  
   Oily, 276  
   Peelable, 277  
 Facial Cleanser, 112  
   Clear, 116  
   Conditioning, 111, 219  
   Daily, 112  
   Liquid, 111  
   Mild, 113  
   Neutra Type, 114  
   Pearlescent, 115, 116  
   Toner, 115  
 Facial Soap, Liquid, 111

**H**

Hair Care Lotion, 89  
 Hair Conditioners, 61-80  
   Balsm, 66  
   Cholesterol, 74  
   Clear, 63, 66, 72

- Concentrate, 73
    - Cream, 63, 75, 76
      - Curly Hair, 71
      - Deep, 70
    - Foaming, 67, 68
    - Gel, 62
    - Hot-Oil, 61, 79
    - Instant, 67
    - Leave-on, 72, 73
    - Lipid, 69, 73
    - Lotion, 63, 64
      - Mild, 68, 69
    - Moisturizing, 65
      - Opaque, 68
    - Mousse, 77, 78
    - Pearl, 64, 69
    - Protein, 64
    - Rinse-out, 62
    - Salt free, 69
    - Softening, 71
    - Soft Hold, 78
    - Spray-On, 71, 73
    - Viscous, 66
    - Wheat Germ, 68
  - Hair Cream, 86
    - Moisturizing, 92
  - Hairdressing, 92
  - Hair glosser, 92
  - Hair Highlighter, 92
  - Hair Mousse, 82, 217
    - Aerosol, 217
    - Concentrate, 217, 218
    - Conditioning, 83, 217, 218
    - Jojoba, 83
  - Hair Products, 6-93
  - Hair Rinse, 55-61
    - Anionic, 57, 58
    - Cationic, 56
    - Clear, 60
    - Conditioning, 56, 60, 61
    - Cream, 56-61
    - Detangling, 56
    - Finishing, 55
      - Foaming, 57
      - Protein, 56
  - Hair Setting Lotion, 86
  - Hair Softening Gel, 88
  - Hair Sprays, 80-82
    - Alcohol-Free, 81
    - Conditioning, 80, 82
    - Hard Hold, 81
    - Long Lasting, 81
    - Moisturizing, 81
    - Non-Aerosol, 80
    - Pump, 81, 82
  - Hair Straightener, 91
  - Hair Styling Gel, 84
    - Alcohol Free, 84
    - Protein, 84
  - Hair Styling Lotion, 85
  - Hair Tonic, 93
  - Hand Cleaners, 125-132
    - Germicidal, 130
    - Mild, 124, 126
    - Pearlized, 125, 126
    - Pumice, 129
    - Waterless, 127, 131
    - Wall dispenser, 132
  - Hand Soap, 126-129
    - Detergent Free, 126
    - Liquid, Heavy duty, 129
    - Pearlescent, 127
    - Salicylic acid, 128
    - Triclosan, 128
- ## L
- Lip Balm, 138, 139
  - Lipstick, 136, 137
    - High Shine, 137
  - Lotions, 178-215
    - All Skin type, 179
    - Almond, 183
    - Cationic, 181, 194
    - Cleansing, 185
    - Conditioning, 181
    - Depilatory, 215

- Dry Skin, 187-189
  - Emollient, 191
    - Dry touch, 190
  - Hand, 195-204
    - Apricot, 203
    - Banana, 202
    - Behenyl, 195
    - Cationic, 196
    - Conditioning, 195
    - Emollient, 198
    - Enriched, 196
    - Peach, 204
    - Pearlescent, 201
    - Protein, 202
    - Strawberry, 203
    - Viscous, 197-200
  - Hand and Body, 204-209
    - High Oil, 206
    - Non-Greasy, 208
    - Viscous, 206, 209
  - Facial, 192, 193
    - Cationic, 194
    - Low Solids, 194
  - High Viscosity, 185
  - Jjoba, 191
  - Liquid Cleanser, 123
  - Low Cost, 183
  - Low solids, 183
  - Moisturizing, 180, 210-214
    - O/W, 213
    - Pourable, 212
    - Super, 214
    - W/O, 212
  - Nonionic All Purpose O/W, 178
  - O/W, 184
  - Petrolatum, 182
  - Protein, 186, 187
  - Silicone Barrier, 192
  - W/O, 189
- M**
- Make-Up, 133-142
    - Base, 136
    - Cream, Anhydrous, 133
    - Emulsion, 134
    - Fluid, 134
    - Foundation, 133
    - Stick, 136
  - Make-Up Remover, 140-142
    - Liquifying Cream, 140
    - Lotion, 140
    - Oil-Free, 142
  - Mascara, 139
  - Mask, Face, 276-278
  - Massage Oil, 275
  - Moisturizer, 216, 217
    - Gel, 216
    - Overnight, 216
    - Protective, 217
  - Mousse, Lipid, 82
    - Styling, 83
    - Tanning, 263
  - Mouth Preparations, 221-227
  - Mouthspray Refresher, 226
  - Mouthwash, 225, 226
    - Clear, 225
    - Zinc chloride, 226
  - Mustache Wax, 279
- N**
- Nail Polish Remover, 278
- O**
- Oil, Body, 276
    - Massage, 275
  - Ointment, Astringent, 273
- P**
- Perfume, Bergamot, 228
    - Bouquet, 228, 229
    - Canaga, 229
    - Fragrance Veil, 234
    - Lavender, 229, 230
    - Leather, 230
    - Lilac, 230

Lily of the Valley, 231, 232  
Muguet, 231, 232  
Musk, 233  
Pomade, 233  
Stick, 234  
Perfumes and Colognes, 228-238  
Permanent Wave Lotion, 91  
Pet Shampoo, 279, 280  
Powder, Dusting, 273  
Pre-Shave Talc Stick, 239

## R

Rouge, Cream, 136

## S

Sachet, Cream, 237  
Shampoo, 6-55, 279, 280  
  Acid Balanced, 29  
  All Purpose, 7  
  Aloe, 10, 20  
  Amphoteric, 38  
  Animal Free, 11  
  Antidandruff, 39-42  
  Awapuhi, 15  
  Baby, 51-54, 268  
  Beer, 15  
  Children's, 53  
  Clear, 12, 13, 29, 30  
  Coal Tar, 43  
  Concentrated, 49, 50  
  Conditioning, 24-31, 49, 53  
  Cream, 19, 40, 46, 49  
  Daily, 8, 28  
  Damaged hair, 34, 35  
  Detangling, 36-38, 50  
  Economy, 13  
  Family, 6, 30, 51  
  Gel, 19-21  
  High Foaming, 16, 17  
  High Performance, 6  
  Liquid, 11  
  Lotion, 41, 44  
  Low Foam, conditioning, 31

  Low pH, 21  
  Medicated, 46  
  Mild, 8-10  
  Moisturizing, 15  
  Natural, 10, 32  
  Neutralizing, 32, 48  
  Non-Alkaline, 47  
  One-Step, 9  
  Pearlescent, 21-23, 33, 49  
  Permed Hair, 48  
  Pet, 279, 280  
  Protein, 21, 34  
  Salicylic Acid, 43, 44  
  Salon, 9  
  Selenium Disulfide, 17  
  Silicone sulfosuccinate, 12  
  Snarl-Free, 35  
  Sulfur, 41  
  Sunscreen, 38  
  Two in One, 16, 17, 42, 54  
  Viscous, 13  
  Wheat, 46  
  Wheat Germ, 34  
  Zinc Pyrithione, 44, 45  
Shaving Cream, 239-243  
  Aerosol, 240-242  
  Ladies, 240  
Shaving Gel, 243  
  Emulsifier-Free, 244  
Shaving Preparations, 239-249  
Skin Guardian, 219  
Soap, Bar, 118  
  Conditioning, 119, 120  
  Syndet, 120  
Soap, Body, 130  
  Cream, 120  
  Detergent, Emollient, 121  
  Glossy, washing, 122  
  Liquid, 120  
Soap, Hand, 126, 127  
  Liquid, 129  
  Salicylic Acid, 128  
  Triclosan, 128

Soap, Liquid, 95, 122  
Soap, Shower, 94, 95, 125  
    Gel, 95, 96  
    Pearlized, 123, 125, 126, 127  
Solar Tanning, Cream, 257, 260  
    Lotion, 261-263  
    Oil, 263  
    Stick, 265  
Sunscreen, Cream, 250, 251  
    Lotion, 252-256  
    Oil, 256  
    Stick, 257  
Sunscreen/Tan Products, 250-267  
Suntan, Cream, 260  
    Water Resistant, 260  
Suntan, Lotion, 260, 261  
    Water Resistant, 260  
Suntan Stick, 264

**T**

Tanning, Accelerator, 266  
    Cream, Solar, 257  
    Jelly, 266  
    Lotions, 260-263  
    Oils, 263  
    Mousse, 263  
    Stick, 264  
Toothpaste, 221-223  
    Fluoride, 222  
    Gel, 222, 223  
Tooth Powder, 224









