The use of herbs for medicinal and cosmetic purpose goes back to the ancient times. The emphasis at the present hour has been laid on the spectacular growth of the herbal and ayurvedic products. The demand in past is found to have increased with increase in number of middle class population. People are now a days very much aware of the ingredients in cosmetic products, the benefits of plant products and the harmful effects of chemical ingredients. The presence of artificial and chemical ingredients in cosmetic products has made people to rethink about suitable alternatives to suit their personnel care regime. The herbal products have finally made their appearance in packaged form in the domestic markets, as cosmetics and personal care preparation such as soaps, shampoos, detergent bars, liquid soaps, liquid detergents, etc. These products play a vital role in our sense of well being and quality of life. The herbal soaps and detergents directly influence our emotions and can trigger moods. These creations not only protect the skin from harmful sun radiations but also leave behind a pleasant fragrance. Due to the increasing awareness and importance of cleanliness and healthiness, the use of herbal products is also increasing. Future demand for herbal products depends upon the per capita rate of consumption and segment of population using these products. This handbook provides detailed information on the manufacturing process of herbal soaps and detergents. This book contains numerous formulae, manufacturing process of different type of soaps and detergents which are used in day to day life. The book is an unique compilation and will be very helpful to all its readers, new entrepreneurs, professionals, beauty care product manufacturers, existing units, technical institutions, etc.

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Popular shades and the colours used to obtain them are

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Isolates
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Important Essentials, Isolates, Synthetic Odourous

Chemicals and Fixatives

Isolates
Synthetic Odourous Chemicals

Fixatives

Raw Materials : Herbal Products

Acacia arabica
A. indica Benth
Parts Used : Bark, gum, leaves, seeds, pods.

Acalypha Indica
(N.O. - Euphorbiaceae)

ANDROPOGON MURICATUS. Retz. or A. Squarrosus

Angelica (Angelica archangelica)

Anise (Pimpinella anisum)

Associated Oil

AZADIRACHTA INDICA

Basil (Ocimum basilicum)

BALSAMODENDRON MUKUL, HOOK. or B. agollocha

Parts Used - Gum

BALSAMODENDRON MYRRHA
(N.O. Burseraceae)

Parts Used : Gum from the bark of the tree

Bay (Laurus nobilis)

Associated Oils
Benzoin (Styrax benzoin)
Associated Oils
Bergamot (Citrus bergamia)
Birch (Betula lenta)
Associated Oils
Calendula (Calendula Officinalis)
Associated Oil
Caraway (Carum carvi)
Cardamom (Elettaria cardamomum)
CITRUS MEDICA, Linm
(N.O.—Rutaceae)
Carrot Seed (Daucus carota)
Caulophyllum Inophyllum
Cedarwood (Cedrus species)
Cinnamon (Cinnamomum zeylanicum)
Associated Oils
Clary Sage (Salvia sclarea)
Associated Oils
Celery (Apium graveolens)
Chamomile, German
(Matricaria recutita, formerly M. chamomilla)
Associated Oils
Coriander (Coriandrum sativum)
Curculigo orchioides Gaertn
(N.O.—Amaryllidaceae)
Ayurvedic Properties
CURCUMA LONGA, Linn
(N.O.—Scitaminaceae)
Associated Oil
Cypress (Cupressus sempervirens)
Eucalyptus (Eucalyptus globulus)
Associated Oils
Fennel (Foeniculum vulgare)
Associated Oil
Fir (Abies alba and other species)
Associated Oils
FICUS RELIGIOSA LINN
(N.O. Moraceae)
Parts Used : Bark, Fruit, Root
Ayurvedic Properties
Galbanum (Ferula galbaniflua)
Associated Oils
Geranium (Pelargonium graveolens)
Associated Oil
Ginger (Zingiber officinale)
Associated Oil
Helichrysum (Helichrysum angustifolium)
Hyssop (Hyssopus officinalis)
Associated Oil
Inula, Sweet (Inula graveolens, or I. odorata)
Associated Oil
HEMIDESMUS INDICUS, R. BR.,
Asclepias pseudosarsa, var. latifolia
(N.O. Asclepiadaceae)
Jasmine
(Jasminum officinale and J. grandiflorum)
Associated Oil
Juniper (Juniperus communis)
Associated Oils
Labdanum (Cistus labdaniferus)
Associated Oils
Lavender (Lavandula angustifolia, previously L. vera and L. Officinale)
Associated Oils
Lemon (Citrus limon)
Associated Oil
Associated Oils
Lemongrass Cochin (C. flexuosus)
Grown in India primarily for isolation of citral
Lovage (Levisticum officinale)
Marjoram
(Origanum marjorana or Marjorana hortensis)
Associated Oils
Melissa (Melissa Officinalis)
Associated Oil
Mimosa (Acacia decurrens var. dealbata)
Associated Oil
Myrrh (Commiphora myrrha)
Associated Oils
Myrtle (Myrtus communis)
Oakmoss (Evernia prunastri)
Associated Oil
Orange (Citrus sinensis)
Associated Oils
Orange Blossom (Neroli)
(Citrus aurantium var. amara)
Associated Oils
Patchouli (Pogostemon cablin)
Pepper, Black (Piper nigrum)
Associated Oils
Cubeb (Piper cubeba)—A litsea substitute
Peppermint (Mentha piperita)
Associated Oils
PSORALEA CORYLIFOLIA LINN.
(N.O. Papilionaceae, Fabaceae)
Parts Used: Roots, leaves, fruits, seeds
Ayurvedic Properties
Ravensare (Ravensara aromatica)
Rose (Rosa damascena, R. gallica, and others)
Associated Oils
Rosemary (Rosmarinus officinalis)
Associated Oils
Rosewood (Aniba rosaeodora)
Sage (Salvia officinalis)
Sandalwood (Santalum album)
Associated Oil
Spikenard (Nardostachys jatamansi)
Associated Oils
SMILAX CHINA
(N.O. - Liliaceae)
TERMINALIA CHEBULA RETZ.
(N.O. Combretaceae)
Parts Used : Fruit
Ayurvedic Properties
TERMINALIA BELERICA ROXB
(N.O. Combretaceae)
Parts Used : Fruit (unripe and ripe)
Ayurvedic Properties
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Cough
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Tea Tree (Melaleuca alternifolia)
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Thyme (Thymus vulgaris)
Associated Oils
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Violet (Viola odorata)
Associated Oil
Yarrow (Achillea millefolium)
Ylang-Ylang (Cananga odorata)
Associated Oils

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Perfumes as formulated below
Perfume Mixtur
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Perfume Mixture
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Perfume Mixtur
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To Fight Dandruff
To Kill Germs
To Present Prickly Heat
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Apple Hair Rinse
Barley Hair Rinse
Chamomile Hair Rinse
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Rosemary Hair Rinse
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Clove Hair Setting Preparation
Gum Tragacanth Hair Setting Preparation
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Anti-Dandruff Egg Preparation
Anti-Dandruff Vinegar Preparation
Anti-Dandruff Sesame Preparation
Anti-Dandruff Sesame Preparation
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Technology of Manufacturing Herbal Synthetic Detergents

Performance Criteria
- Washing habits
- Quality of water
- Soiling
- White vs. coloured clothes
- Manufacturing facilities
- Safety and pleasant 'in-use' qualities
- Colour, odour and flow characteristics
- Shelf life
- Pricing

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- Alkalinity
- Good building and active matter

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A TYPICAL BATCH OF FINISHED PRODUCT

(A good quality household detergent granules)

For 1000 kg. yield

Surfactants

Builders

Additives

A TYPICAL BATCH USING ACID SLURRY OF UNSEPARATED SPENT ACID

For 1000 kg. of finished detergent

Surfactant

Builders

Additives

Detergent Powder Prepared Without Using Spray Dryer (High Bulk Density)

A TYPICAL FORMULATION OF HOUSEHOLD DETERGENT POWDER

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Machine Dish Washing Powder

Scouring Powders Including Kitchen Cleaners

Abrasives

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Heavy-duty Household Washing Powder

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General Purpose Powder
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General Cleaning Compound
Dishwashing Compound
Heavy-duty Detergent
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Active detergent
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Talc
Starch
China clay
Calcite
Soda ash
Sodium sulphate
Sodium silicate
Coconut mono ethanolamide
Soapstock

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Dicalcium phosphate
Rosin
Titanium dioxide
Colour
Fluorescer
Perfume
Water

Processing of NSD Bars
Handling of Raw Materials
Processing
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Some Typical Formulations of Detergent Bar
Formulations for detergent bar manufacture

Plant & Machinery for Small Scale Detergent
Cake Manufacture

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Milling Machine
Plodder
Bar Cutter or Billet Cutter
Embossing or Stamping Machine
Pulverizer

Formulations of Detergent Cakes
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Low-soap Syndet Bar
Soap-Synthetic All-purpose Bar
All Syndet Bar

Alkyl-Sulfate Syndet Bar
Proctor & Gamble's Soap Syndet Formulation
Proctor and Gabmle's Syndet Laundry Bar

SCHEME FOR THE MANUFACTURE OF
DETERGENT CAKES ON SMALL SCALE
Capacity : 1 tonne per day per shift basis

Land and Building
Projecting Cost
Plant and Machinery

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