Composition and Formulas for Manufacturing of Inks, Paints, Lacquers, Varnishes and Enamels

(Blueprint Inks, Drawing Inks, Gold Ink, Lithographic Inks, Glass Inks, Lacquers, White Lacquer Enamel, Barn Paint, Water Varnish, Glass, Celluloid and Metal Inks, India, China, or Japan Ink, Stencil Inks, Indelible Stencil Inks, Putty, Pipe Coating, Bituminous Coating, Limed Rosin, Waterproof Shellac, Enamel Varnish, Milk Bottle Caps, Crack Filler, Wrinkled Finish Coating, Cheap White Paint, Paint, Plastic, Medium Oil Varnish, Bottle Varnish)
Introduction

A formula is an entity constructed using the symbols and formation rules of a given logical language. In science, a specific formula is a concise way of expressing information symbolically as in a mathematical or chemical formula. Formulation is a key process in the overall life cycle so that products are delivered that is of the right quality, at a competitive cost, and is made available within the specified time scale. The chemical formula identifies each constituent element by its chemical symbol and indicates the number of atoms of each element found in each discrete molecule of that compound. If a molecule contains more than one atom of a particular element, this quantity is indicated using a subscript after the chemical symbol and also can be combined by more chemical elements. It is all in the formula, whose implications also remain undiscovered by modern economists. It plays a major role in every process whether it is manufacturing process or preservation. There is a big importance of formula in our life because formulas and equations deal with everyday things like shapes, investments, mixing things
movement, lighting, travel and a host of other things they provide information you can use in planning activities. This book basically deals with inks and marking inks, inks for stamp pads, inks for hand stamps, color stamps for rough paper, indelible hand stamp ink, white stamping ink for embroidery, stencil inks, blue stencil inks, indelible stencil inks, sympathetic inks, typewriter ribbon inks, coloring agents, writing inks, how to decorate furniture, novelties, furniture lacquer enamels, white lacquer enamel, egg shell white enamel, high gloss white enamel, colors for furniture spraying, furniture lacquer formulas., enamels and industrial varnishes, general purposes varnish, spar and boat varnish, exterior varnish, varnish for outside work, spar and yacht varnish, quick drying interior varnish, crystal varnish (indoor), hard varnish for floors, colored linseed oil floor dressing, wrinkle finish varnish, brewers pitch and keg varnishes, undercoat varnish, quick drying varnish mastic varnish etc. This book present several hundred advanced product formulations for household, industrial and other applications. This book will be of help to development chemists looking for leads in the formulation of a wide range of products.
**Market Outlook**

The global market value of the ink solvent market was estimated to be more than $790 million in 2013 and is projected to reach $1,062.46 million by 2019, growing at a CAGR of more than 5% between 2014 and 2019. The high demand for the printing inks across the packaging end user industry will increase the overall ink solvents consumption.

The Rs. 40,600-crore Indian paint industry is likely to see a 20 per cent compounded annual growth rate until 2016.

Global demand for paints and varnishes is forecast to expand 1.8% p.a. between 2015 and 2019. Currently, vinyl and acrylic polymer based paints and varnishes (aqueous) account for 11.8% of the global demand while the remaining market share is divided between other polymer based paints and varnishes (aqueous) (13.1%), polyester based paints and varnishes (non-aqueous) (14.2%), vinyl and acrylic polymer based paints and varnishes (non-aqueous) (19.6%), other polymer based paints and varnishes (non-aqueous) (36.6%) and other paints and varnishes (4.6%).

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Ester Cut
4 Hour Varnish (Partial Phenol-formaldehyde)
Type of Resin
40 gal. Phenol-formaldehyde Type of Gum
25 Gal Ester Varnish
Dammar Cut
Interior Enamel
Interior Flat Paint
Interior Gloss Paint
Exterior House Paint
Black Stoving Enamels or Baking Japans
Air Drying Black Enamels and Varnishes
Wood Paints
Flat Lacquer Paste
Clear Gloss Lacquer
Priming Coat
Second Coat (New Outside Wood)
Third Coat (New Outside Wood)
First Coat (Repainting Outside Wood)
Second Coat (Repainting Outside Wood)
Priming Coat (Soft Wood Floors)
Priming Coat (Hard Wood Floors)
Second Coat (Wood Floors)
Third Coat (Wood Floors)
Underside Porch Floors
Fairly Permanent
Interior Wall Paints
Interior Wood Painting
Priming Coat (Interior Plaster)
Second Coat (Interior Plaster)
Third Coat, Flat, Finish (Interior Plaster)
Third Coat, Eggshell Finish (Interior Plaster)
Third Coat, Oil Gloss Finish (Interior Plaster)
Plastic Paint
Priming Coat (New Inside Wood)
Second Coat (New Inside Wood)
Third Coat, Flat Finish (New Inside Wood)
Third Coat, Eggshell Finish
Third Coat, Oil Gloss Finish
First Coat Over Shellac
Interior Wood Stains
Stain Formulas
Painting Stucco, Concrete, Brick Etc.
Priming Coat (Stucco, Concrete, Brick, Stone)
Second Coat (Stucco, Concrete, Brick, Stone)
Third Coat, Gloss Finish (Stucco, Concrete, Brick, Stone)
Third Coat, Flat Finish (Stucco, Concrete, Brick, Stone)
Second Coat (Concrete Floors)
Third Coat (Concrete Floors)
Metal Painting
Priming Coat (Exterior and Interior Metal)
Second Coat (Light Brown) (Exterior and Interior Metal)
Third Coat (Dark Brown) (Exterior and Interior Metal)
Third Coat (Light Green) (Exterior and Interior Metal)
Third Coat (Dark Green) (Exterior and Interior Metal)
Third Coat (Black) (Exterior and Interior Metal)
Second Coat (Exterior Metal)
Third Coat (Exterior Metal)
Third Coat (Light Gray) (Exterior Metal)
Priming Coat (Interior Metal)
Second Coat (Interior Metal)
Third Coat, Flat Finish (Interior Metal)
Third, Eggshell Gloss. Finish (Interior Metal)
Priming Coat (Galvanized Iron)
Second Coat (Galvanized Iron)
Third Coat (Galvanized Iron)
Boat Painting
Priming Coat (Boat Exterior)
Second Coat (Boat Exterior)
Finishing Coat (Boat Exterior)
Gloss Finishing Coat (Boat Exterior)
Priming Coat (Boat Interior)
Second Coat (Boat Interior)
Finishing Coat, Eggshell Gloss (Boat Interior)
Metal Work on Boats
Row Boats-Exterior and Interior
Canoes
White Enamel Paint, Outdoor
Decorators' Varnish
Long Oil Outdoor Varnish
Flatting Varnish
White Tin-printing Enamel
White Enamel Paint Indoor
White Enamel Paint, Tin Printing
Decorator’s Varnish
Quick-drying Outdoor Varnish by the American Method
Water Paints
Silicate Water Paint
Fireproof Paint
Water Paint
Water Soluble Shellac Solution
Matt Finish Distemper
Oil-bound Distemper
Water Paint
Paint, Oil Emulsion
Railroad Water Tank Paint
Paint for Interior Plaster
Black Walnut Stain
Ebony Stain
Clear Shingle Stain
Colored Shingle Stain (Red)
Grind and add
Mahogany Stain
Traffic or Road Marking Paint
Vehicle for Ready Mixed Aluminum Paint
Vehicles for Aluminum and Bronzing Liquids
Vehicle for Outside Aluminum Paints
Vehicle for Interio-Aluminum Paints
Wall Sealers
Glazing Composition
Candy Glaze
Acid Resistant Paint
Antifouling Paint
Paint, Automobile Top
Auto Top Dressing
Blackboard Paint
Bridge Paint
Paint, Cement
Cement Water Paint
Cold Water Paint, Outside
Enamel Paint Remover
Enamel Paint (Outdoor)
Flexible Paint for Marking or Stencil Work
Freight Car Paint
Galvanized Iron, Treatment before Painting
Paint Grinding
Heat Resisting Paint
High Light Reflecting Paint
Priming Coat
Second Coat
Third Coat
Paint, Hydrocarbon Resistant
Paint, Iron Protective
Latex Paints
Heat Sensitive Paints
Luminous Paints
Marine Paint
Marine Paint
Paint, Oil Emulsion
Olive Drab Paint
Outside White Paint Base
Paint, Outside
Outside White Paint
Cheap Outside White Paint
Fresh Plaster, Painting On
Paint, Cold Water
New Plaster Wall Size
Varnish Formula No. LV-112
Rubbing Varnish
Varnish
Varnish Formula No. LV-89
Varnish Formula No. LV-93
Varnish Formula No. LV-107
Varnish Formula No. LV-111
Ester Gum Mixing Varnish (L.V.-151)
LV-150 Oil
White Enamel
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Remarks
Four Hour Varnish
Procedure
Remarks
Concrete Silos, Varnish for Interior of
Alkali Resisting Varnish
Varnish, Medium Oil-China Wood Oil
Long Oil-China Wood-Linseed-Rosin Type
Long Oil-China Wood Oil-Cumar Spar Type with Litharge
Long Oil-China Wood-Spar with Rosin and Litharge
(Regular 34 gallon type)
Long Oil-China Wood Oil-Spar with a Resinate (25 gallon
Quick Drying)
Short Oil-China Wood Oil Alone
Short Oil-China Wood Oil with a Holding Agent
Medium Oil-China Wood-Linseed Oil (Low Cooking Temperature)

75-Gallon Rosin Varnish Formula
25-Gallon Ester Gum Varnish Formula
50-Gallon Ester Gum Varnish Formula
75-Gallon Ester Gum Varnish Formula
25-Gallon Amberol F-7 Varnish Formula
50-Gallon Amberol F-7 Varnish Formula
75-Gallon Amberol F-7 Varnish Formula
25-Gallon Amberol 226 Varnish Formula
50-Gallon Amberol 226 Varnish Formula
75-Gallon Amberol 226 Varnish Formula
25-Gallon XR-254 Bakelite Varnish Formula
50-Gallon XR-254 Bakelite Varnish Formula
75-Gallon XR-224 Bakelite Varnish Formula
XK-944 Lead Manganese Drier
Varnish Formula
Baking Varnish for Wrinkle-Finish on Metal
Light Fast Colored Varnish
Bookbinder’s Varnish
Anti-Rust Varnish
Varnish, Anti-Skinning Agent for Amberol Varnish
Bakelite Varnish
Bottle Varnish
Bakelite Type Varnish
Bakelite-Nevindene-Ester Gum
Bakelite-Nevindene Varnish for Maximum Adhesion
Bakelite-Nevindene Floor Varnish
Typical Blended Oil Esterified Rosin Mixing Varnish
Typical Example of an Enamel Varnish, Using Modified Phenol Formaldehyde Resin
Crystallizing Varnish
Varnish, Electrical Conducting
Varnish Emulsion
Varnish, Flat
Hard Cold Made Varnish
Varnish, Insulating
Insulating Varnish
Orange Shellac Varnish
Quick Drying Rubbing Varnish
Liquid Drier
Quick Drying Floor or Interior Varnish
Quick Drying Spar Varnish
Heavy-Bodied Oil
Typical Resinate Varnish
Rubber Shoe Varnish
Short Oil Varnish (Wood Oil)
Short Oil Varnish (Linseed Oil)
Medium Oil Varnish
Long Oil Varnish (Linseed)
Spar Varnish
Straw Hat Varnish
Transfer Varnish
Violin Varnish
Water Shellac Varnish
Varnish, Water Resistant
Whitewash
Whitewash (Without Glue)
Plastic Paint
Paint, “Raised Surface”
Caking of Crystals, Prevention of Roof Paint
Paint, Rust Proofing
Structural Steel Paint
Shellac Paint, Metallic
Ship Paint
Paints, Phosphorescent
Paint, Plastic
Paint Base for Textiles
Water Paint
Water Paint for Stucco
Cheap White Paint
Liquid Paint Drier
Wood Paint Primer
25-Gallon Rosin Varnish Formula
50-Gallon Rosin Varnish Formula
Paint and Varnish Remover
Wood Bleaches
Wood, Plastic
Wood Filler Powder
Acid Proof Wood Stain
Wood Stains, Non-Grain Raising
Putty
Preparing Zinc for Painting
Oil Soluble Stain
Synthetic Resin Finishes
Fused Manganese Resinate
Limed Rosin
Phthalic Anhydride Varnish Resin
Waterproof Shellac
Water Solution of Shellac
Laboratory Table Finish
Acid Proof Coating
Bituminous Coating
Butter Tubs, Coating for Cellulose Coatings
Concrete Coating
Corrosion Resistant Coating
Pipe Coating
Pipe Line, Coating for Petroleum
Protecting Coating for Wax Finishes
Rubber Pyroxylin Coatings
Wall Coating
Wrinkled Finish Coating
Filler for Cast Iron
Filler for Automobile-Body Work
Crack Filler
Milk Bottle Caps
Dispersions of Casein and Shellac
Treating Concrete Oil Tanks
Precipitated Cobalt Linoleate (Drier)
Lead Drier
Nitrocellulose Emulsion
Urea Resin Stoving Finishes
Paint Remover
Varnish for Wax Coated Surface
Wood-Oil Stand-Oil (Thickened Wood-Oil)
Medium Long-Oil Varnish for Inside and Outside Use
Enamel Varnish
Long-Oil Boat Varnish (Yacht Varnish, Marine or Submersible Varnish, Non-Spotting Outside Varnish)
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