

Selected Formulary Book on Petroleum, Lubricants, Fats, Polishes, Glass, Ceramics, Nitrogenous Fertilizers, Emulsions, Leather and Insecticides

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A man entering an industry soon finds that most of the products manufactured by his company 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 meager, scattered or antiquated. 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. 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. 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 the extracting oil from cottonseed, silver nitrate test for cottonseed oil, solid linseed oil, decolorizing or bleaching linseed oil, linseed oil for varnish making, refining linseed oil, mineral oil, leather stuffing grease, leather adhesion grease, liquid belting lubricant, belt adhesion compounds, belt preserving grease, government harness dressing, rubber belt dressing (non static), wire drawing lubricant, wire drawing composition, metal drawing lubricant, cold drawing metal lubricant, drawing compound for aluminum, brass drawing lubricating emulsion, sheet steel drawing lubricant, non seizing threads and gaskets, machine tool lubricant, slushing oil for metal protection horse shoe grease etc.

This book is an invaluable resource of the formulae of petroleum, lubricants, fats, polishes, glass, ceramics, nitrogenous fertilizers, emulsions, leather and insecticides. This book present several hundred advanced product formulations for household, industrial and other applications. The purpose of publishing this book is very useful for chemists, entrepreneurs, existing units, technocrats and engineering students.

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Increasing Viscosity of Oils
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Insulating Oil, Refining
Penetrating Oil
Oil, Penetrating
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Rayon Lubricating Oil
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Hot Neck Grease
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Non-Chilling Lubricants
Rod Lubricant
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 Furniture Polish
 Removing Scratches from Furniture
 Furniture Finishing Oil
 Furniture, Lacquer Enamel and Polished
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 Floor Wax, Liquid
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 Homemade Floor Wax
 Floor Finish
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 For Polished Floors
 Bright Drying Wax Polish
 Rubless Wax Polish
 Easy Rubbing Wax Polish
 Wood-Preserving and Finishing Compound
 Dustless Mop Oil
 Stove Polish
 Window Polish
 Italian Powder for Polishing Marble
 Colored Burnishing Clay
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Tripoli Buffing Stick
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Polishing Metals for Metallographic Analysis
Metal Cleaner for Beer Pipes and Apparatus
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Aluminum Polish Powders
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Iron and Steel Polishing Powder
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Viscous Oily Liquid
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Stove Polish, Semi-Liquid
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Stove Blacking
Stove Polish
Non-inflammable Stove Polish
Quick Drying Stove Polish
Stove Cleanser
Liquid Oven Polish
Stove and Oven Polish Powders
Stove and Oven Polishes Liquid
Oven Polish, Solid
Oven Polish
Oven Polish Emulsion

Oven Polish, White
Stove "Lacquer"™
Liquid Grate Polish
Water-Resistant Floor Emulsion Polish
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Transparent Bright Dry Wax Emulsion
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Low Temperature Pouring High Grade Creams
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Silver Polish
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Automobile Cleaner and Polish
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Solid Abrasive Polish (Wax), Automobile
 Auto Polish
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 Polish for Leather Furniture
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 Furniture Polish
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 Linoleum Wax
 Clear Wax
 Red Wax
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 Wax Polishes
 Wax Paste Polish
 Emery Polishing Paste
 Wax Polish
 Wood Button Polish
 Axe or Hammer Handle Wax
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 Norwegian Klister (Ski) Waxes
 Ski Wax
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Opaque Vitreous Enamel
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Blue Vitreous Enamel
Acid-Resistant Vitreous Enamel
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Electrical Range Enamel
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 Ceramic, Overglaze Decoration Coating
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 Acid Resistant Cement
 Clinkerless Slag Cement
 Hardening Cement-Asbestos Surface
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 Toughened Cement
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 Dental Plaster Accelerator
 Accelerator for Setting of Plaster of Paris
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 Joint Compound
 Porous Concrete
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 Graphite-Silicon Carbide Refractory
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 Sound Absorbing Composition
 Acoustical Plaster
 Acoustic Wall Board
 Sound and Heat Insulation
 Heat and Sound Insulation
 Sound and Heat Insulation
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 Thermal Insulation
 Plastic Heat Insulation
 Spark Plug Insulator
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 Boiler Insulation
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 Hiding of Small Defects in Lumber for Furniture Etc.
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 Wood Preservative Against Termites
 Exterior Millwork (Wood) Preservative
 Telegraph and Fence Pole Preservative
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 Rot-Vermin Proofed Fiber Board
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 Fireproofing Wood
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 Wall Plaster or Mortar
 Building Plaster
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 Eliminating Dust on Dirt Roads
 Tennis Court Surface Dressing
 Non-Aging Road Binder
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 Asphalt Paving Composition
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 Beryllium Bronze
 Improved Bronze Alloy
 Popular Bronze Bearing Alloys
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 Bunting #156â€“Similar to SAE 65, GMC

4052-M

Bunting #98â€“SAE 62â€“GMC 4048-Mâ€“Similar to ASTM B-10-18

Bunting # 162â€“GMC 4075-M

Bunting Alloy No. 72â€“GMC 4182-M

Bunting # 96â€“SAE 63â€“Similar to GMC 4046-M

Bunting # 27â€“SAE 64â€“GMC 4050 Mâ€“ASTM-B-31-21

Bunting #135â€“Similar to SAE 67â€“GMC-4056-M

Bunting #124â€“SAE #66â€“ GMC-4054-M

Bunting #125

Bunting # 161

Hot Working Copper Alloys

Copper Alloy Stable to Steam

Non-Staining Copper Alloy

Machinable Copper-Base Alloy

Copper-Iron Electrical Alloy

Silver Electrical Contact Alloy

Electrical Contact Alloy

Hardening Magnesium Alloys

Cable Sheath Lead Alloy

Bearing Metal Alloys

Die Casting Alloy

Pattern Alloy

Low Temperature Aluminum Brazing Alloy

Aluminum Alloy Resistant to Sea Water

Melting Aluminum Turnings

Non-Blistering Aluminum Castings

Hard Strong Aluminum Alloy

Hard and Low Thermal Expansion Aluminum Alloy

Hints on Spraying Babbitt Metal

Red Brass

Imitation Gold

Coating Metals with Lead

Watch Compensating Spring Alloy

Pen Nibs

Pen Point Alloy

Hard Pen-Nib Alloy

Low Temperature Thermometer Alloy

Electrical Contact Alloy

Low Expansion Lead-In Wire for Electric Bulbs

Non-Corrosive Lead-In Wire for Gas Filled Lamps

Tungsten Wire Forming Compound

Discharge Lamp Electrode Alloy

Hot Cathode Electrode

Lead Alloy for Storage Battery Anodes

Frictional Alloy

Heat Hardening Spring Steel Alloy

Alloys Resistant to Hot Caustic Solutions

Ferro-Chromium

Pouring Fusible Metal Models

Overcoming Lead Sweat

Type Metal Dross Reducer

Dental Plate Alloy

Dental Amalgam Alloy

Dental Amalgamating Alloy
 Dental Pin Alloy
 Tooth Straightening Metal Alloy
 Dental Plate Alloy
 Non-Blackening Silver Dental Alloy
 Dental Alloy
 Gold Sponge Dental Filling
 Heat Treatment of Spring and Alloy Steels
 Colors Developed in Heating of Steel
 Heat Treatment of Manganese Steel
 Heat Treating Transformer Steel
 Carbonization of Nickel Cathodes
 Thermal Treating Bath for Light Metals
 Tempering Powders (Steel)
 Steel Spring Quenching Emulsion
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 Hardening or Tempering Copper
 Acid Resistant Lining
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 Inhibitor, Steel Pickling
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 Foundry Mold (Casting) Powder
 Fabrication and Treatment of Uss Stainless and Heat Resisting Steels
 Joining of USS Stainless and Heat Resisting Alloys
 Welding
 Austenitic Alloys
 Ferritic Alloysâ€™USS 17 and USS 27
 Ferriticâ€™Martensitic Alloyâ€™USS 12
 Electric Arc Welding
 Acetylene Welding
 Electric Resistance Welding
 Spot and Line Welding
 Flash Welding
 Atomic Hydrogen Welding
 Finishing of Stainless Steel Welds
 Soldering
 Silver Soldering

Brazing
Riveting
Annealing
Annealing USS Stabilized 18-8
Annealing USS 17 and USS 27
Annealing USS 12
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Sandblasting
Machining and Cutting Operations Machining
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Punching and Shearing
Perforating
Drawing and Forming
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Spinning
Finishing of Fabricated Articles
Grinding, Polishing, Buffing and Brushing
Grinding
Polishing
Buffing
Brushing
Abrasives
Buffing Compounds
Brushing Compound
Grinding, Polishing and Buffing Wheel and their Preparation
Coarse Grinding Wheels
Fine Grinding and Polishing Wheels
Buffing Wheels
Finishing Procedures
Selection of Commercial Sheet Finishes
Matching Mill Polished Finishes
Finishâ€™Mirror Finish
Miscellaneous Finishes
Pickling Metals
Pickling Iron
Stainless Steel Pickling Solution
Removing Oxide Films from Metals
Pickling Bath for Duralumin
Recovery of Waste Pickling Solutions
Pickling Inhibitor
Stripping Metal Coatings
Metal Cleaner and Brightener
Anodic Oxidation of Aluminum
Anode, Treatment of Aluminum
Brightening Aluminum
Rapid Cleaning of Mercury
Reclaiming Water-Logged Electric Tools
Cleaning a Rusted Rifle
Coloring Metals
Antique Coloring of Metals
Green Coloring of Metals

Coloring Brass Plate Brown
Coloring Iron-Blue
Coloring Cadmium Black
Coloring Cadmium Brown
Coloring Iron-Black
Bronzing Copper and Its Alloys
Bronzing Iron or Steel
Permanent Blacking Galvanized Sheet Metal
Bright Dip for Cast Bronze
Oxidizing Finish for Brass
Blackening Cast Iron
Gun Metal Coloring of Pencil Tips
Bluing Steel Articles
Bluing Small Machine Parts
Treatment of Aluminum Before Plating
Protective Aluminum Coating
Coating Iron with Molten Aluminum
Enameling Iron
White Enamel for Cast Iron
Enamel Coating for Copper
Radium Protection Sheathing
Corrosion Preventive Coating
Metallographic Etching of Zinc and Alloys Etching Fluid
Molybdenum Etching Solution
Copper Etching Fluids
Printing Plate Etch, Copper
Copper Printing Plate Etch
Etch for Microscopic Study of Tin
Stainless Steel Etches
Micrographic Etch for Lead Specimens
Metal Etching Mordant
Etching Designs on Copper
Purifying Metallic Cadmium
Removing Welding Scale from Stainless Steel
De-Scaling Stainless Steel
Descaling Iron
Removing Fire Scale from Bronze
Gas Free Aluminum
Dephosphorizing Steel
Removing Residual Calcium from Lead
Copper Oxide Rectifier Metal
Removal of Aluminum Oxide from Alloys
Wear Resistant Iron Surface
Brazing Flux
Brazing Solder
Stop-off Paste for Use in the Silver Brazing of Monel
Galvanizing Flux
Welding Rod Flux
Flux Coating for Welding Electrode
Flux for Welding Zinc
Torch Welding Flux
Soldering Fluxes
Liquid, Non-Acidic

For Tin and Baser Metals
For Copper Wires
For All Metals Except Aluminum
General Soldering Fluxes
Soldering Flux
Iron and Steel Soldering Flux
Aluminium Chloride
Soft Soldering Flux
Easy Spreading Soldering Flux
Flux for Silver Soldering Stainless Steel
Aluminum Solder
Aluminum Plate Solder
Aluminum Cable Solder
Solder for Aluminum or Cast Iron
Copper to Aluminum Solder
Duralumin Solder
Solder
Soft Solder
Solders for Monel
Low Tin Solder
Silver Soldering
Soldering Iron Tip
Quick Solders, Rose's Metal
Soldering Fluids
Soldering Pastes
Soldering Powders
For Cast Iron
For Aluminum
For Iron, Copper and Brass
For Aluminum
Arc Welding Electrodes
Welding Electrode
Resistance Welding Electrode
Welding Flux
Fluxes for Aluminum Welding
Welding Powder
Brass Welding Rod
Non-Fuming Brass Welding Rod
Welding Rod
Iron Welding Rod
Flux for Cadmium and Its Alloys
Cadmium Refining Flux
Steel Dephosphorizing and Desulphurizing Flux
Metal Melting Flux (For Down-Draft Furnaces)
Bearing Metal
Tinning Gray Cast Iron
Temperature Control Important
Hot Tinning Cast Iron
Hot Tinning of Copper
Hot Tinning Tableware
Tinning Milk Cans
Testing Tin Plate Pores
The Hot-Tinning of Fabricated Articles

The Tinning of Copper Tubes
The Tinning of Steel Hollow-Ware
The Tinning of Copper Wire
The Tinning of Steel Wire
The Tinning of Cast Iron
The Tinning of Miscellaneous Articles
Rustproofing Composition
Rust Cleaning and Rust Proofing
Rustproofing Iron
Rustproofing for Iron and Steel
Rustproofing Steel (Phosphatizing)
Black Iron Stain for Rust Prevention
Rust Remover
Rustproofing Composition
Rust Removal
Anti-Tarnish Bags for Silver
Silver Tarnish Inhibitor
Corrosion Proofing Aluminum
Corrosion Proofing Iron
Corrosion Resistant Radiator Pipe
Brass, Corrosion Resistant
Coating Iron Strips with Carbon
Foundry Core
Foundry Mold Coating, Asphalt
Foundry Mold Wash for Green Sand
Regenerating Foundry Core and Molding Sand
Copper Mold Dressing
Mold for Casting Stainless Steel
Molds for Precision Castings
Nickel Casting Facing
Care of Platinum Vessels
Tumbling Castings
Aluminum Powder
Froth Flotation Compound
Froth Flotation Agent for Oxide Ores
Froth Flotation Cleaning of Fire Clays
Recovering Tin from Scrap Tin Plate
Recovering Tin from Dross
Cutting Wire Cable
Reconditioning Steel Splice Bars
Impregnation of Metals
Non-Oil-Wetting Metal Surfaces
Freeing Frozen (Stuck) Pistons
Steel and Iron Identification
Seasoning (Drying) Wood
4. CERAMICS AND GLASS

Glass Electrode Seal
Foamed Glass
Coating for Optical Lenses
Coating for Optical Lens
Solder Glass
Typical Flux for Glass Color

Dry Process Ground Coat Enamels for Cast Iron
Dry Process Cover Coat Enamels for Cast Iron
Batches for Matte Glazes
Wollastonite Satin and Matte Glazes
Single-Application Textured Glazes
Two-Coat Textured Glazes
Base Coat Glazes
Overspray Glazes
Batches for Gloss Glazes
Zirconium Silicate
High-Temperature Glazes for Sanitary Ware
Low-Expansion Glazes for Vitreous Bodies
Batches for Fast-Fire Glazes on Talc or Wollastonite Bodies

5. LEATHER

Hide and Skin Preservative
Degreaser for Hides
Leather Bleaching
Bleaching Tanning Extract
Syntan
Fat Liquor
Synthetic Tanning Emulsion
Leather Finish
Antiseptic Leather
Mildewproofers for leather Goods
Fireproofing Emulsion for Leather
Chlorinated Paraffin
Belt-Traction Dressing
Fur-Carrotting Solution
Finish for Split Leather

6. PETROLEUM REFINERY PROCESSES AND PETROLEUM PRODUCTS

Introduction
Petroleum Fractionation (Distillation)
Conversion of Petroleum Fractions
Purification of Petroleum Fractions
Extraction of Components and Blending Techniques
Gases
Motor Fuels
Heating and Illuminating Oils
Lubricants
Other Oils
Petroleum Waxes and Petroleum
Asphalts
Oil Wastes
Petroleum Products for Petrochemical
Synthetic Petroleum Products

7. NITROGENOUS FERTILIZERS

Nitrogenous Fertilizers and the Cyclic Process of Plant Nutrition
Significance of Inorganic Nitrogenous Fertilizers

8. PYROTECHNICS AND EXPLOSIVES

Military Smoke

- Military Oxygen-Generating Candle
- Ignition Cone for Oxygen Candles
- Smoke Grenade Fuse Trains
- First-Fire Charge
- Delay Charge
- Ignition Charge
- Nondetonating Gas Charge
- Fuse Powder
- Extrudable Fusee
- Extruded Fuse
- Gasless Fuse Powder
- Delay-Fuse Powder
- Railroad Signal Flare
- Yellow Signal Flare
- Railroad Signal Torpedo
- Devil's Step on the Walk
- Incendiary Igniter
- Blasting-Cartridge Discharger
- Electric-Blasting Detonator
- Plastic Nonhardening Explosive
- Unsheathed Safety-Explosive Cartridge
- Match Heads
- Tracer-Projectile Igniter
- Fuse Powder
- Flashless Military Propellant
- 9. AMMONIUM PHOSPHATES AND AMMONIUM POLYPHOSPHATES

- Ammonium Phosphates
- Principal Reactions
- Properties
- Production Considerations
- Manufacturing Methods
- Ammonium Polyphosphates
- Production Methods
- Applications
- 10. CHEMISTRY AND PROCESSING OF UREA AND UREAFORM
- Urea
- Physical and Chemical Properties
- Methods of Analysis
- Manufacture
- Preparation of the Neutral Urease Solution
- Manufacture
- Urea in Agriculture
- Use
- Ureaform
- Chemical and Physical Properties
- Agronomic Aspects of Ureaform
- Method of Analysis
- Manufacture of Ureaform
- Ureaform in Mixed Fertilizers
- Uses
- Mixed Fertilizers
- 11. MANUFACTURE OF ORDINARY SUPERPHOSPHATE

Production Technology of Simple Superphosphate
 Preparation of the Raw
 Materials
 Manufacture of Superphosphate
 Additional Operations
 Sulphuric Acid as a Raw Material in the Manufacture of Superphosphate
 Transport and Storage of Sulphuric Acid
 Reactions Occuring in Superphosphate Manufacture
 Stoichiometric Amount of Sulphuric Acid and Peculiarities of the Decomposition Reaction
 Main Technical-Analytical Indices of Superphosphate Manufacture
 Manufacturing Indices of Ordinary Superphosphate from Vietnam
 Phosphorite
 Fast Curing of Superphosphate
 Apparatus used in Superphosphate Manufacture
 Phosphate Metering Devices
 Acid Metering Devices
 Mixing of Raw Materials
 Automation of Metering and
 Preparation of Raw Materials
 Dens for Superphosphate Manufacture
 Equipment for Trapping Fluorine-Containing Gases
 Storage and Conditioning of Super- phosphate
 12. EMULSIONS, DISPERSIONS AND FOAMS
 Hydrocarbon Solvent Emulsions
 Chlorinated Solvent Emulsions
 Oil Emulsions
 Cocoa Butter Emulsion
 Benzyl Benzoate Emulsion
 Methyl Salicylate Emulsion
 Sulfathiazole Emulsion
 Glycol Ester Resin Emulsions
 DDT Emulsion
 Nonaethylene Glycol Oleate
 Viscous Wax and Grease Emulsions
 Low Viscosity Wax Emulsions
 Irish Peat Wax Emulsion
 Acrawax Emulsion
 Acrawax C Emulsion
 Fatty Acid-Amide Emulsion Commercial Octadecane Amide
 Soluble Mineral Oil Emulsions
 Derivation of the Optimum Formula
 Soluble Vegetable and Animal Oil Emulsions
 Soluble Solvent Emulsions
 Industrial Mineral Oil Emulsion
 Cutting Oil Emulsion
 Soluble Oils
 Soluble Neatsfoot Mineral Oil
 Soluble Pine Oils
 Emulsions with Pectin
 Zein Dispersion
 13. INSECTICIDES, FUNGICIDES AND WEED KILLERS
 Insect Repellent
 Silicone Insect Repellent Emulsion

Insect Repellent Sticks
 Clothing Insecticide Impregnant
 Insecticide Cone (Burning)
 Aerosol Spray Concentrate
 Fumigant Insecticidal Tablets
 Wettable Powder Insecticide
 Insecticide Emulsion
 Lindane Emulsion
 Methyl Parathion Emulsion Concentrate
 Methyl Parathion Dust Concentrate
 • Formulations for Liquid Sprays
 Aerosols
 65% • Emulsifiable
 Concentrate (Cationic)
 45% Chlordane Emulsifiable
 Concentrate (Cationic)
 85% Chlordane Emulsifiable
 Concentrate (Nonionic)
 Phosdrin Insecticide Dust
 Endrin Insecticide Emulsion Concentrate
 Endrin Insecticide Dust
 Dieldrin Emulsifiable Concentrate
 Dieldrin Insecticide Base
 Aldrin Wettable Powder Insecticide
 Aldrin-DDT Emulsifiable Concentrate
 DDT Insecticide
 DDT Dispersion Concentrate
 25% DDT Emulsifiable Concentrate
 (Cationic)
 DDT-Oil Larvicide
 Self-emulsifying Agricultural Spray Oil
 Agricultural Spray Adhesive
 Cattle & Space Fly Spray
 Aerosol Cattle Fly Spray
 Mothproofing Aerosol
 Peanut Storage Fumigant
 Grain Fumigant
 Nonflammable Fumigant
 Increased Flash Point Fumigant
 Dog Repellent
 Rodenticide & Rat Repellent
 For Cordage & Sacks
 Plant Defoliant
 Borax Weed Killer
 Rope Preservative Fungicide
 Agricultural Fungicide
 Citrus Fruit Fungicide
 Oak Wilt Fungus Spray
 Insect Repellent Stick for the Skin
 Insect Repellent
 Self-Propagating Thermal Insecticide
 Self-Vaporizing Insecticide
 Insecticide Aerosols

Herbarium Aerosol Insecticide
Aerosol-Generating Propelling
Composition
Protecting Stored Tobacco Leaf
Grape-Vine Fungicide

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