

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

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Format: Hardcover

ISBN: 9788190568562

Code: NI211

Pages: 784

Price: Rs. 2,275.00 US\$ 200.00

Publisher: NIIR PROJECT CONSULTANCY SERVICES

Usually ships within 5 days

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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Cup Grease
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Lubricating Grease, Gasoline Proof
Grease, Lubricating
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Lubricant for Drawing and Forming Stainless Steel
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Lubricant
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Upper Cylinder Lubricant
Lubricant Journal-Box
Lubricant Non-greasy
Bicycle Chain Lubricant
Lubricant for Dies and Plates
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Dry Powdered Lubricant
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Penetrating Oil
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Rayon Lubricating Oil
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Lubricating Oil, Low Cold Test
Lubricating Oil, Reclaiming Used
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Olive Oil, Bleaching
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Drawing Die Lubricant for Diamond Dies
Corrosion Protecting Grease
Lubricant for Preventing Corrosion
Lubricating Haulage Ropes
Hot Neck Grease
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Non-Chilling Lubricants
Rod Lubricant
Solid Lubricant
Hard Grease
Graphite Lubricant

Watersoluble Oil
Mineral Oil Soluble Castor Oil
Lubricant Insoluble in Organic Solvents
Tempering Fats (Bath to Quench and Harden Steels)

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Polishing Emulsion for Automobiles and Furniture
Automobile Polishing Powder
Automobile Polish
Furniture Polish
Polishing Cloth
Oil Polish for Furniture
Furniture Polish
• Removing • Scratches from Furniture
Furniture Finishing Oil
Furniture, Lacquer Enamel and Polished
Nickel or Chromium Wax Polish
Floor Wax, Liquid
Non-Slippery Floor Wax
Homemade Floor Wax
Floor Finish
Floor Sweeping Compound
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
Sharpening Compositions
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Copper Polish
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Wax Paste Auto and Furniture Polish
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Nickel and Chrome Polish
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Nickel, Chrome, Copper and Brass Polish
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Oven Cover Polish
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Wax Block Stove Polish
Wax Paste Stove Polish
Stove Polish, Paste
Stove Polish, Semi-Liquid
Liquid Stove Polish
Stove Blacking
Stove Polish
Non-inflammable Stove Polish
Quick Drying Stove Polish
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Oven Polish
Oven Polish Emulsion

Oven Polish, White
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Liquid Grate Polish
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Rubless Bright Drying Water Wax Polishes
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Emulsion Type
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Mahogany
Shoe Creams, High Temperature Pouring
Low Temperature Pouring High Grade Creams
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Paste Metal Polish
Wax Polish for Varnished Metals
Silver Polish
Chromium Polish
Tin Plate Polish

Fine Instrument Scale Polish
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No-Rub Floor Polishes
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Pyrotechnic Flare
Signal Torch (Flare)
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Mine Explosive
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Automobile Cleaner and Polish
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Automobile Polish (Tumbler's)
Auto Polish, Wax Base

Solid Abrasive Polish (Wax), Automobile
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Furniture Polish
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Axe or Hammer Handle Wax
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Norwegian Klister (Ski) Waxes
Ski Wax
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Multicellular Glass
Luminescent Glass
Photoluminescent Glass
X-Ray Absorption Glass
Telescope Mirror Glass
Decolorizing Glass
Plaster Mold for Roofing Tiles
Building Tile Composition
Artificial Marble
Oil Coating for Glass Fibers
Tridymite Stone
Soapstone Table Preservative
Modelling Clay
Ceramic Glaze
Kieselguhr Ceramics
High Strength Ceramic Ware
Enamelware, Testing
Pottery Saggars
Vitreous Enamels
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Blue Vitreous Enamel
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Coloring Roofing Granules
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Acid Resistant Cement
Clinkerless Slag Cement
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Magnesium Oxychloride Cement
Toughened Cement
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Dental Plaster Accelerator
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Light Weight Cement Concrete
Sealing Concrete
Concrete Sealing Compound
Joint Compound
Porous Concrete
Gas-Proof Concrete
Gas-Proof Mortar
Hardening Concrete Floors
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Refractory Furnace Bricks
Petroleum Retort Lining
Plaster Molds for Roofing Tile
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
Sound and Heat Insulating, Artificial
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Spark Plug Insulator
Electrical Insulation
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Boiler Insulation
Insulation for Dynamo and Transformer Plates

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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
Rot and Insect Proof 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
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Wood Preserving and Fireproofing Composition
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Beryllium Bronze
Improved Bronze Alloy
Popular Bronze Bearing Alloys
Bunting #164â€“SAE #640â€“GMC 4071-M
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
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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
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Heat Treatment of Manganese Steel
Heat Treating Transformer Steel
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Annealing Hack-Saw Blades and Files
Hardening or Tempering Copper
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Case Hardening Steel
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Hardening Steel
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Case Hardening Cast Iron Piston Rings
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Inhibitor, Steel Pickling
Steel Nitriding inhibitor
Coating for Ingot Molds
Preventing Cavities and Segregation in
Steel Ingots
Plastic Lead
Malleable Cast Iron
Coating for Sand Molds for Light Metal Casting
Copper Foundry Mold Dressing Paste
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
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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
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Removal of Oxide and Scale Pickling
Sandblasting
Machining and Cutting Operations Machining
Drilling
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Sawing
Punching and Shearing
Perforating
Drawing and Forming
Application of Finishes
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

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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
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Production Considerations
Manufacturing Methods
Ammonium Polyphosphates
Production Methods
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10. CHEMISTRY AND PROCESSING OF UREA AND UREAFORM

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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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Sun, 18 Mar 2018 05:46:45 +0530