



# One Kernel, A Thousand Uses

## Products Made from Corn

### PRIMARY PRODUCTS

#### Whole Kernel Corn

Corn on the cob  
 Corn off the cob  
 Canned and frozen corn  
 Popcorn

Hominy Grits  
 Corn meal  
 Corn bread  
 Tortilla Chips

Shelled Corn for livestock  
 feed  
 Cracked Corn for livestock  
 feed

#### Starches

##### Corn Starch

##### Industrial Uses

Abrasive paper and cloth  
 Adhesives  
 Batteries (dry cell)  
 Board (corrugating,  
 laminating, solid fiber  
 board, cardboard)  
 Bookbinding  
 Briquettes  
 Ceramics (as clay binder)  
 Chemicals  
 Cleaners, detergents  
 Coatings on wood, metal and  
 paper  
 Cork products  
 Crayon and chalk  
 Dressing, surgical  
 Dyes (as a bodying agent,  
 carrier diluent, etc.)  
 Fireworks  
 Insecticide powders  
 Insulating material  
 Lubricating agents  
 Oilcloth

Paints (cleaning compounds,  
 cold-water and latex paints,  
 poster lacquers, etc.)  
 Paper and paper products  
 Plastics (molded)  
 Plywood (interior)  
 Printing  
 Textiles  
 Tile, ceiling  
 Tires, rubber  
 Wallboard and wallpaper

##### **Cornstarch**

##### Food, Drug or Cosmetic Uses

Antibiotics  
 Aspirin  
 Baby foods  
 Bakery products (bread, rolls,  
 cakes, pies, crackers and  
 cookies)  
 Baking powder  
 Beverages, brewed  
 Chewing Gum  
 Chocolate drink  
 Confectionary

Cosmetics  
 Desserts (puddings, custards,  
 etc.)  
 Drugs and pharmaceuticals  
 Flours, prepared (including  
 prepared mixes)  
 Gravies and sauces  
 Meat products  
 Mustard, prepared  
 Pie filling  
 Precooked frozen meals  
 Salad dressing  
 Soaps and cleaners  
 Soups  
 Sugar, powdered  
 Vegetables, canned

## Starches continued

### **Dextrins**

#### Industrial Uses

Adhesives  
 Bookbinding  
 Briquettes  
 Candles  
 Ceramics  
 Cork products  
 Crayon and chalk  
 Dyes  
 Envelopes  
 Fireworks  
 Inks, printing  
 Insecticides  
 Insulation, fiberglass  
 Labels  
 Leather  
 Linoleum  
 Magazines  
 Matches (on head and side of box)  
 Paints  
 Paper and paper products  
 Plastics  
 Plywood  
 Sandpaper  
 Shoes (counter pastes, polish, etc.)  
 Soaps  
 Straws, drinking  
 Textiles  
 Twine  
 Wallboard and wallpaper  
 Window shades

### **Dextrose**

#### Industrial Uses

Acids, commercial  
 Adhesives  
 Amino acids

Chemicals  
 Citric  
 Dyes  
 Enzymes  
 Leather tanning  
 Lysine  
 Mannitol  
 Paper manufacturing  
 Rubber  
 Textiles

### **Dextrose**

#### Food and Drug Uses

Antibiotics  
 Baby foods  
 Bakery products  
 Berries, canned and frozen  
 Beverages brewed  
 Beverages, carbonated  
 Breakfast foods  
 Caramel color  
 Cheese foods and spreads  
 Chewing gum  
 Chocolate products  
 Citric acid  
 Citrus juices  
 Coloring, pure food mix  
 Condensed milk  
 Confectionary  
 Cordials  
 Cream, frozen  
 Dairy products  
 Desserts  
 Dietetic preparations  
 Distillation products  
 Doughnuts  
 Drugs  
 (fermentation process)  
 Eggs, frozen or dried  
 Fish, pickled

Flavoring extracts  
 Food acids  
 Fruit juices  
 Fruits and vegetables, canned  
 Fruits (candied, frozen)  
 Gelatin desserts  
 Ice cream, water ices and sherbets  
 Infant and invalid feeding  
 Jams, jellies, marmalades and preserves  
 Lactic acid  
 Meat products (bacon, bologna, hams, sausage, frankfurters, mincemeat)  
 Medicinal preparations and intravenous (injections, pills, tablets, drugs, etc.)  
 Mixes, prepared  
 Peanut butter  
 Peas, canned  
 Pectin, fruit  
 Pickles and pickle products  
 Powders (ice cream, prepared dessert, pudding, etc.)  
 Sauces  
 Seasoning mixes, dry  
 Seasoning mixes, dry  
 Sorbitol (in candies, toothpaste, etc.)  
 Soups, dehydrated  
 Spices and mustard preparations  
 Syrups (table, fountain, medicinal)  
 Vinegar  
 Wine  
 Xanthan gums  
 Yeast

## Starches continued

### Ethanol

Alcoholic beverages  
 Industrial alcohol  
 Octane enhancer  
 Oxygenate found in motor fuels

### Sorbitol

Mouthwash  
 Toothpaste

### Hydrolysis

#### Corn-Sugar Molasses

Leather tanning  
 Livestock feed  
 Organic acids  
 Organic solvents  
 Tobacco

## Syrups

### Corn Syrup

#### Industrial Uses

Adhesives  
 Chemicals  
 Dyes and inks  
 Explosives  
 Leather tanning  
 Metal plating  
 Paper, glassine and parchment  
 Plasticizer  
 Polish, shoe  
 Rayon  
 Textiles, for finishing  
 Theatrical makeup  
 Tobacco and products

### Corn Syrup

#### Food, Drug Uses: Liquid or Dried Form

Baby foods  
 Bakery products (bread, rolls, biscuits, doughnuts, pies, cakes, cookies, pretzels, etc.)  
 Beverages, brewed  
 Beverages, carbonated

Breakfast foods  
 Catsup, chili sauce, tomato sauce  
 Cereals, prepared  
 Cheese spreads and foods  
 Chewing gum  
 Chocolate products  
 Coffee whiteners  
 Condensed milk, sweetened  
 Confectionary  
 Cordials and liqueurs  
 Desserts  
 Eggs, frozen or dried  
 Extracts and flavors  
 Frostings and icings  
 Fruit butters and juices  
 Fruit drinks  
 Fruits (canned, candied, fillings, frozen, etc.)  
 Ice cream, water ices and sherbets  
 Jams, jellies, marmalades and preserves  
 Licorice  
 Malted products  
 Marshmallows and related products  
 Meat products  
 Medicinal preparations

Mixes, prepared  
 Peanut butter  
 Pickles and pickle products  
 Salad dressing  
 Sauces  
 Seafood, frozen  
 Soups, dehydrated  
 Syrups  
 Toppings  
 Vinegar

### High Fructose Corn Syrup

#### Food Uses

Bakery products  
 Canned fruits  
 Canned juices

### High Fructose Corn Syrup

#### Food Uses Continued

Condiments  
 Confectionary products  
 Frozen desserts  
 Jams, jellies and preserves  
 Soft drinks  
 Wine  
 Yeast

## Syrups Continued

### **Maltodextrins**

#### Food Uses

Bakery mixes  
Beverage powders  
Condiments

Dehydrated foods  
Dry soup mixes  
Gum confections  
Icings and glazes  
Instant teas  
Instant breakfast foods

Low calorie sweeteners  
Marshmallows  
Nougats  
Pan coatings  
Sauce and gravy mixes  
Snack foods

## CO-PRODUCTS

### Solubles

### **Steepwater**

Antibiotics  
Chemicals  
Pharmaceuticals  
Yeast

### Gluten and Hulls

### **Products Used by Livestock, Poultry and Dairy**

Corn germ meal  
Corn gluten feed  
Corn gluten meal  
Corn oil by-products  
Corn sugar  
Hydrol (corn-sugar molasses)  
Steepwater for feed (condensed fermented corn extractives)

### **Steepwater for Feed**

### **Gluten Feed and Meal**

### **Oil Meal**

### **Corn Germ Meal, Corn Gluten Feed, Corn Glu- ten Meal**

#### Other Uses

Amino acids  
Fur cleaner  
Zein and other protein products

## Germ

### **Corn Oil**

### **Corn Oil, Refined**

#### Food, Drug Uses

Carriers for vitamins and other medicinal preparations in capsule form  
Cooking oil  
Margarine  
Mayonnaise

Potato chips  
Salad dressings  
Sauces, seasoning  
Shortening  
Soups

### **Corn Oil and Free Fatty Acids**

#### Industrial Uses

Chemical and insecticides

Lecithin (for pharmaceuticals, cosmetics, linoleum, printing inks, etc.)  
Paint and varnish  
Rubber substitutes  
Rust preventative (surface coatings)  
Soap  
Soluble oil (leather and tanning use)  
Textiles