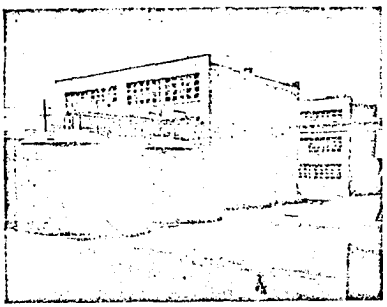
MONSANTO
CHEMICALS — PLASTICS

New Monsanto Plant Expands Plasticizer Production and Service to Industry



Construction of Monsanto's new DOP plant at Everett, Massachusetts, expands both the production of Monsanto Plasticizers and service to the Plastics Industry. The new plant is in operation now.

Dioctyl phthalate (DOP) and di-iso octyl phthalate are being produced at the plant. Shipment of other plasticizers also can be made from Everett. The plasticizers are available in tank cars, compartment tank trucks or drums. This permits you to order Monsanto Plasticizers in the quantities you need and at economical prices.

Monsanto is a basic manufacturer of DOP. Monsanto's family of plasticizers is the most versatile in the world. This permits you to make selections of the right plasticizer, or combination of plasticizers, needed to give your product the special qualities you want. It enables you to plan your formulations for either price or quality competition and get the plasticizers you need from a single source.

Monsanto Plasticizers are readily available, with prompt shipment being made from Everett; Akron, Ohio; New York, N. Y.; or St. Louis, Mo.

In addition to prompt delivery, Monsanto offers you technical service in the selection of plasticizers to do the job your production requires. This technical service is yours for the asking.

For information on Monsanto Plasticizers and for details on the technical service, contact the nearest Monsanto Sales Office or mail the coupon.

Send for new bulletin on formulating adhesives

The formulation of heat-sealing and heat-sensitive adhesives is a feature of a new technical bulletin just issued by Monsanto. *Mail the coupon for your copy of* Monsanto Technical Bulletin No. O-81, featuring Santicizer *3.

The bulletin includes typical formulations of nitro cellulose *heat-sealing coatings and* paper coating lacquers, polyvinyl acetate adhesives, zein metallic decorative paper coatings, back-coatings for pressure-sensitive tapes and hot melts for paper adhesives. Santicizer 3, in addition to its use in adhesives, has a number of other applications.

Your copy of Bulletin No. O-81 will be sent to you promptly upon receipt of the coupon at the bottom of the next page.

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"Safety for Pilots on the Crop Air Drop"

Recognizing the importance and growing use of light airplanes in spraying and dusting insecticides and herbicides, Monsanto has published a pocket-size booklet, "*Safety for Pilots on the Crop Air Drop.*" Monsanto is a leading producer of insecticidal and herbicidal chemicals. The booklet gives details on the properties and need for safety in handling various chemicals for controlling weeds and insects. Your copy will be sent, *free*, if you will mail the coupon.

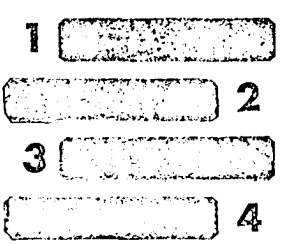
If corrosion is your problem, take a look at Monsanto Santolene C

Monsanto Santolene* C offers you an effective and economical solution to the problem of corrosion in the storage and transportation of light petroleum products.

The illustration below shows how Santolene C stops corrosion. In addition to convincing proof in extensive tests, Santolene C has demonstrated its effectiveness *in service. It has been used by major oil* companies for more than two years.

Santolene C is product-soluble. It burns completely with fuel, leaving no residue. Tests in both gasoline and diesel engines show that the additive does not reduce engine cleanliness, causes no injector fouling, and has no adverse effect on engine performance. Mail the coupon for a copy of Monsanto Technical Bulletin No. O-62, which contains information that may be worth money to you.

Test shows how Santolene C stops corrosion



SANTOLENE C PROVED its effectiveness in this test. Metal strips illustrated were immersed in gasoline containing various amounts of Santolene C. **1.** Control, containing no Santolene C. **2.** Strip from sample containing Santolene C at the rate of 3 pounds per 1,000 barrels. **3.** Strip from sample containing Santolene C at the rate of 5 pounds per 1,000 barrels. **4.** Strip from sample containing Santolene C at the rate of 7½ pounds per 1,000 barrels. If you want to make a similar test with your own products, we will be glad to supply a sample of Santolene C.

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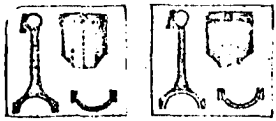
"Stop-Go" problem



Parts from engine of "stop-and-go" driver using a good premium lubricant.

Parts from "stop-and-go" driver's engine lubricated with oil improved by Santolube.*

Of every 100 miles traveled by the average passenger car, 70 to 85 miles are "stop-and-go" driving. Such operation forms organic acids that cause high engine wear . . . water condensation that brings rust . . . partially oxidized fuel and other contaminants that built up engine deposits and cause excessive wear and oil consumption. This problem of the "stop-and-go" driver can be solved by improving lubricants with Monsanto Santolubes with these special properties. Mail the coupon for details.

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EFFECTIVE DEFOAMER

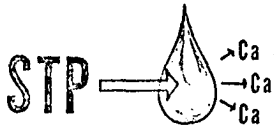
If you have a problem of holding down foam, why not try Monsanto Sterox * 110? Sterox 110 is a high-molecular-weight alcohol ester with excellent defoaming action. Mail the coupon for a copy of Monsanto *Technical Bulletin No. P-140.*



Sodium phosphates efficient helpers in many industries

Many an American industry has found its processes easier and more efficient because of Monsanto Sodium Tripolyphosphate or Monsanto Tetrasodium Pyrophosphate.

These two important members of the polyphosphate family are used as detergent aids for synthetic detergents, in dishwashing compounds, in bottle washing, in dairy cleaning, in metal cleaning, in paper deinking and as a soap builder.



Sodium tripolyphosphate (STP) is one of the newest sodium phosphates. It has excellent calcium sequestering power, outstanding detergency, high solubility in water and superb physical and chemical stability.

The sequestering action and water softening power of STP are important in the control of hard water. When soap is used in cleaning operations, STP prevents the formation of insoluble scum and curds. Such insoluble curds impair quality in numerous industries, particularly in the manufacture of textiles.

High detergency is a valuable quality of STP. When combined with other alkalies, synthetic detergents or soap, STP adds substantially to the compound's cleaning power.



Tetrasodium pyrophosphate (TSPP) combines properties as a water softener, emulsifier, dispersing agent and deflocculating agent. It is a builder for soaps and synthetic detergents. TSPP is characterized by unexcelled purity and chemical and physical stability. The synergistic action of TSPP makes it one of the most valuable of Monsanto Polyphosphates.

For information on Monsanto Sodium Phosphates, contact the nearest Monsanto *Sales Office or mail the coupon.*

AROCLORS improve maintenance paints . . . other applications

Monsanto AROCLORS (chlorinated biphenyl and chlorinated polyphenyls) improve maintenance paints, serve as plasticizer and resin extenders, perform efficiently as a heat transfer medium. Economical AROCLORS are in plentiful supply.

Some of the principal uses of AROCLORS are:

In Pliolite S-5 and Marbon 9200—Contribute fast-drying properties, provide excellent protection against acids and alkali, moisture and other common corrosive influences.

In Maintenance Paints—Metal-surface paints made with an AROCLOR * gain resistance to water, acids, alkali and other corrosive influences. The AROCLORS contribute to nonflammability, adhesion, gloss. The AROCLORS have good electrical properties. They also are used in modified and synthetic rubber coatings, lacquers, hot metal strip coatings, vinyl protective coatings, wood-sealer formulations and marine paints. Mail the coupon for literature.

How to cut plasticizer costs

Many users of plasticizers are cutting costs without reducing quality through the use of Monsanto HB-40. HB-40 (partially hydrogenated terphenyl) is a low-cost extender-type plasticizer for such products as vinyl extrusions, vinyl pastes, vinyl slush moldings, vinyl calendering . . . and as a primary plasticizer in polystyrene *casting resins, polystyrene adhesives,* molding polyvinyl carbazole, strip coatings for metals, floor tile compositions and asphalt base paints. Mail the coupon for complete details.

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MONSANTO CHEMICAL COMPANY, 1700 South Second Street, St. Louis 4, Missouri. District Sales Offices: Birmingham, Boston, Charlotte, Chicago, Cincinnati, Cleveland, Detroit, Los Angeles, New York, Philadelphia, Portland, Ore., San Francisco, Seattle, Twin Cities. In Canada, Monsanto Canada Limited, Montreal.

*Reg. U. S. Pat. Off.



SERVING INDUSTRY . . . WHICH SERVES MANKIND

SEND INFORMATION: ☐ Plasticizers. ☐ Technical Service on Plasticizers. ☐ Santolubes. ☐ Sodium Phosphates. ☐ HB-40.

SEND LITERATURE: ☐ AROCLORS for use in

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☐ Booklet (Safety for Pilots) ☐ Bulletin No. P-140 (Sterox 110). ☐ Bulletin No. 0-61 (Santicizer 3). ☐ Bulletin No. 0-62 (Santolene C).

SEND SAMPLE: ☐ Santolene C;

MONSANTO CHEMICAL COMPANY
1700 South Second Street, St. Louis 4, Missouri

Please send, without cost or obligation, information, sample or literature as indicated at left.

Name.....Title.....

Company.....

Street.....

City.....Zone.....State.....

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August; Chemical Week, August 16; Chemical & Engineering News, August 25, 1952.

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