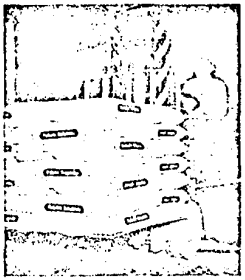
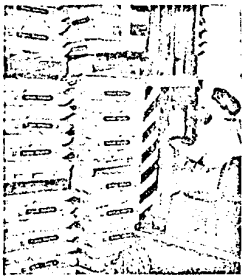
for your information...

brief summaries of helpful product news

Save Time Handling Phthalic Anhydride



EASY HANDLING... you can move a ton of phthalic anhydride at a time by fork truck and eliminate manual handling of individual bags during unloading.



IMPROVED WAREHOUSING... uniform units can be stored in safe, neat stacks. They are easily tiered so that three tons can be placed in an area only four feet square.

Man-hours for Unloading Cut 67% As Monsanto Unitizes Phthalic Anhydride

Unitizing is Monsanto's new method for speeding the handling of phthalic anhydride. In actual tests the new method has already reduced the man-hours of handling required for unloading phthalic anhydride by as much as 67%.

Here's how it works: eighty-pound bags are stacked on expendable *paperboard bases* to form units of one ton each. The bags in each unit are held to one another by a glue which has high adhesive power, yet allows bags to be separated without tearing. Each unit is raised by fork truck and quickly moved from boxcar to unloading dock where it may be placed on regular wooden pallets.

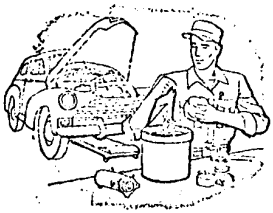
Trial shipments have shown that this method will save 55% in time and 33% in the number of men unloading a 5000-pound car.

In a typical case, three workers—two laborers and a fork lift operator—took four and one-half hours, or thirteen and one-half man-hours to unload a shipment.

To test the effectiveness of the new method, an identical shipment was unitized. As a result, only two men—one laborer and the fork-lift operator—were required and they did the job in just two hours, or four man-hours. Total savings in man-hours: 67%.

For complete details on handling unitized shipments call your nearest Monsanto sales office or mail the coupon.

Orthodichlorobenzene Used to Remove Carbon In Auto Maintenance



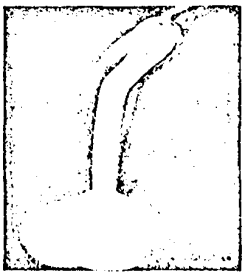
The low order of toxicity of orthodichlorobenzene makes this versatile liquid solvent a valuable cleaning agent for such things as removing carbon from engines as well as grease residues from wrenches, jacks, floors and motor parts. It is also used as a cleaning agent in machine shops, die works, tool rooms, etc.

Versatile orthodichlorobenzene can do many other jobs, too. Following are a few applications:

- Spotting agent in dry-cleaning
- Vehicle in leather dyeing
- Grease-cutting agent
- Paint, varnish remover
- Shoe polish ingredient

For a booklet on ortho, check the coupon.

Free-flowing, Non-dusting Fumaric Acid Available



Monsanto fumaric acid — now available in commercial quantities—has several major advantages for users.

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free-flowing and *non-dusting*, due to its granular, crystalline form.

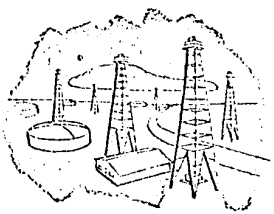
Monsanto fumaric acid is also easier to handle; comes in handy 50-pound multiwall paper bags.

Other major advantages of fumaric acid in alkyd resin manufacture include: high melting point, low order of toxicity and minimum corrosive action against materials normally used in resin making. For information on prices and delivery, mail coupon.

Phenol Used on Textiles

Either Monsanto phenol or thiourea can now be used to create a seersucker-type synthetic fabric.

The phenol or urea is "printed" on the synthetic textile, causing the fibers to shrink in the many small areas touched by the compound. The result is the puckered effect of seersucker. Mail coupon for more information.



Phosphoric Acid Aids Liquid Fuel Manufacture

Polymerizing gaseous olefine hydrocarbons to liquids has now become a matter of considerable economic interest. Reason behind this development: the large quantity of lighter unsaturates being produced as by-products in petroleum cracking.

Among the most promising catalytic method of polymerization is that using phosphoric acid as a catalyst. This process is covered by patents of a major oil company which licenses users. Phosphoric acid is spread in a thin film on a nonporous-type support.

Aroclor 1248 Useful In Heat Transfer

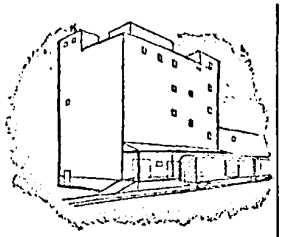
Aroclor* 1248 is rapidly gaining in popularity as a heat-transfer medium. It is a nonflammable, liquid-phase, heat-transfer fluid, designed for operation at atmospheric pressure at maximum temperatures of 300° C.

Outstanding performance characteristics of Aroclor 1248 were demonstrated in a unit designed for pilot operations to reach temperatures not attained by ordinary steam pressures.

A portable electric heater was devised with Aroclor as the heat-transfer medium. Extensive testing showed the use of Aroclor had several advantages:

- Freedom from fire hazard.
- Viscosities sufficient to permit pumping at room temperatures.
- Boiling point sufficiently above 300° C. to assure liquid condition at all times.
- Stability against heat, plus enough safety factor to accommodate accidental overheating.
- Other advantages such as controlled vaporization loss, freedom from minimum corrosive action and freedom from toxicity hazard (in properly enclosed system) were also obtained.

Use the coupon below to order a bulletin that describes the physical properties of Aroclor 1248.



21% Monsanto DCP Gives Users 4 Advantages

If you are using dicalcium phosphate, investigate the advantages of 21% dicalcium phosphate which Monsanto makes along with the 18% grade.

Each of these products has its place and application. The more concentrated form, in particular, offers these benefits to users:

1. *You save money.* Not only on freight, but also on the actual cost per unit of phosphorus f.o.b. the plant.

2. *You get flexibility in formulation.* Since less material is used, your nutritionist can vary his other ingredients . . . increase the energy value of the feed to a greater degree.

3. *Your customers* require less storage space.

4. *You gain over* 14% in phosphorus supplement warehouse space.

To put all these advantages to work for you, send the coupon today for more information on Monsanto DCP.

MONSANTO

*Reg. U. S. Pat. Off.

MONSANTO CHEMICAL COMPANY 9/53
1702 South Second Street, St. Louis 4, Missouri

Please send information on: ☐ Fumaric Acid ☐ Phenol ☐ Orthodichlorobenzene ☐ Unitized Phthalic Shipping ☐ 21% DCP, feed grade

Please send: ☐ Bulletin P-130, "Aroclors as heat-transfer medium"

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

Company.....

Street.....

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

0222760

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