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CHEMICAL WEEK

A MCGRAW-HILL PUBLICATION 50 CENTS SEPTEMBER 10, 1966



MAGNET MAKERS TURN UP THE HEAT 101

Corfam goes to work in the manufacturing plant . . . 43

Second chance for syndets-from-sugar process? . . . 59-1

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Staying on the top is no cinch. Not in fabrics any more than in chemical polymers, pharmaceutical tablets, soap suds or what-have-you.



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We recognize there's room for improvement in most formulations and processes. And that improved specialty chemicals—designed, say, to thicken, stabilize or suspend better, snuff out microbes more effectively or completely control metal ions—can often cut costs as well as turn out better products.

For this reason, we've taken a new slant on formulating and processing problems. One that involved organizing a unique, problem-oriented marketing team. And putting an equally selective group of chemicals, desig-

nated "Designed Chemicals," at their disposal.

These specialty chemicals will be handled only by our Designed Chemicals Group, men who really know ingredients. And know how to help you search out that mys-



terious missing chemical. Perhaps just the one that'll give your product or process that new competitive edge.

How much of a lead in terms of time and

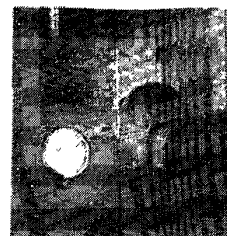


market do you have on your competition? Remember, your time/market relationship can change almost overnight. Where you stand tomorrow depends on the move you make today. Call our Designed Chemicals Group. The Dow Chemical Company. Midland, Michigan.

For a month. Or two months. Or maybe a bit longer.

designed  chemicals

ON THE COVER: Operator peers into reactor as trickle of magnetic material drops from the opening. New markets are opening up for ceramic permanent magnets as designers perfect smaller and lighter magnets with higher coercive force (p. 101).



CHEMICAL WEEK

Vol. 99, No. 11

SEPTEMBER 10, 1966

THIS WEEK IN BUSINESS

- 5 **VIEWPOINT:** Cold light on the hot subject of advertising costs is shed by study showing yearly change of such costs as a percentage of GNP.
- 27 **Trade balance** may trigger new economic policies for '67. White House worries about the relatively rapid increase in imports.
- 29 **An end to the 7% tax credit?** Process industries—which have benefited by several hundred million dollars in four years—ponder new project-payout formula.
- 29 **Allied Chemical sets up new Industrial Chemicals Division**, consolidating former corporate offshoots of three of Allied's five original predecessor companies.
- 30 **Continental Oil-Consolidation Coal merger** set for next week; Pitt-Consol Chem is included, but potash and activated carbon stock holdings will be spun off.
- 30 **Antitrust action in the U.S.:** General Dynamics indicates it will appeal ruling by federal court in New York that it must divest its Liquid Carbonic division.
- 31 **Antitrust proposal for the world:** Global-minded business men consider implications of Senator Hart's plan for agency to probe international mergers, cartels.
- 32 **New opportunities on the horizon for plastics producers:** Medical research on airborne mineral fibers could lead to restrictions on asbestos in major uses.
- 74 **Canada's Prairie farmers begin a record wheat harvest**, are expected to follow up with another fertilizer splurge—raising sales 20% next year.
- 82 **Manhattan's Park Avenue is becoming the fashion address** for chemical companies lured by modern offices, easy commuting, and good communications.
- 112 **There will be 250,000 fewer housing starts this year.** Mortgage money is short, although housing demand factors (family formations and income) are good.

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THIS WEEK IN TECHNOLOGY

- 43 **Du Pont's Corfam finds its first use in process equipment** as a long-lasting packing and seal material for pumps, etc.
- 47 **Armour will build plant for new series of amines** derived from petroleum-based materials and made by a new catalytic process.
- 53 **Nebraska seeks patents on a new process for making surface active agents** from sucrose and beef tallow, will offer process free to those who'll build in state.

THIS WEEK IN SPECIALTIES

- 101 **Specialty magnet market will double in the next 10 years**—from \$50 million to \$100 million. Auto industry will take lion's share.

CHEMICAL WEEK

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Taking Giant Steps

Two chemical process companies took giant steps toward diversifying into the oceanography field last week, and two paper companies with combined sales of nearly \$1 billion/year reached a tentative agreement to merge.

(1) Bendix Corp. (Detroit) expanded its oceanic activities by acquiring for an undisclosed amount of stock Marine Adapters (La Jolla, Calif.), producer of oceanographic instruments for petroleum and utility companies, state and federal agencies, and firms engaged in scientific programs.

(2) Fluor Corp. (Los Angeles) and B. L. McFarland and Associates (Fort Worth and Midland, Tex.), a group of five companies involved in offshore and onshore drilling operations, have agreed to merge, subject to stockholders' approval. The McFarland group operates five offshore drilling rigs in the Gulf of Mexico.

(3) A tentative agreement to merge has been reached by U.S. Plywood Corp. (New York) and Champion Papers, Inc. (Hamilton, O.). It is subject to both directors' and stockholders' approval. The corporate identities of both companies will be preserved.

Reducing Gas Rates

The Federal Power Commission has ordered El Paso Natural Gas Co. and Transwestern Pipeline Co. to reduce by \$17 million/year the price of natural gas in the southern California market.

The rate cut stems from the July 26 decision in which FPC turned down the application of Gulf Pacific Pipeline Co. (a Tenneco subsidiary) to supply gas to the Los Angeles area (*CW*, Aug. 6, p. 20). Gulf Pacific last week filed for a rehearing.

El Paso and Transwestern were told they would have to lower their rates to reflect the lower costs resulting from the bigger deliveries possible in the expanded system. At the same time, FPC said it would conduct further proceedings to decide if customers should get additional benefits resulting from more liberal depreciation allowances.

FPC has given the companies 45 days to show cause why the reduction should not take place.

Sources of airborne asbestos

Asbestos-lined ducts used in centrally air-conditioned buildings.

Asbestos ducts and insulation in home central-heating plants.

Motor vehicle brake linings and clutch plates.

Auto undercoatings.

Asbestos ceiling and floor tiles.

Asbestos shingles and sidings.

Construction and demolition.

Fitting, cutting, and removing asbestos-filled wallboards and floorings, piping and insulation.

Incineration of asbestos-filled scrap.

Improperly filtered effluent from asbestos processing plants.

Asbestos: Awaiting 'Trial'

The asbestos industry—whose end products are valued at more than \$500 million/year—may be in for a shake-up. It could come in the form of federal legislation limiting the use of asbestos, because asbestos has been accused—though not yet “convicted”—as a significant health hazard. Probable contender for asbestos markets: plastics.

Recent studies have convinced U.S. Public Health Service specialists and other medical authorities that about 40% of all Americans have mild, chronic cases of asbestosis, even though most of them never worked directly with asbestos.

Unlike other airborne dust particles, asbestos fibers have the ability—almost as much as activated carbon—to absorb polycyclic hydrocarbons and arsenicals. Furthermore, says USPHS, in the past 30 years the asbestos-related cancer rate has increased sixfold.

The Inferences: While the average asbestos worker is well protected, the man on the street is not. The 3x1-micron asbestos fibers in his lungs can come from a variety of sources (*table, above*).

And medical experts say there's no way to assess hydrocarbon content in those lung deposits.

American Cancer Society researchers feel certain there is a synergistic relationship among airborne asbestos, smoking and lung cancer. They reason that the nondegradable, hydrocarbon-soaked fibers may well be a constant source of lung irritation.

PHS officials think it may take them up to five years to establish asbestos' true role as an air pollutant. However, Congress may act before the research is finished. Says Representative Robert Watkins (R., Pa.): “We've seen enough evidence already. Asbestos will never get a clean bill of health. With just a little more data we'll move for controls and strict ones.”

Some form of asbestos control is in the offing, public health officials are certain, if only part of a larger clean-ambient-air program. However, there is the danger that Congress may enact rigorous controls on the quantity of asbestos that could be used.

In that case both Canada and U.S. asbestos products manufacturers would be hard hit. Of the five forms of asbestos mined today, chrysotile asbestos holds the predominant market position because of its insulating and processing qualities. Canada produces more than 80% of the chrysotile asbestos used in the U.S. In both countries, a number of serious dislocations would occur.

At present, there is no known material that could fill all of asbestos' strategic roles. On the other hand, should federal controls merely call for higher standards for binders and shieldings, that would spark a rise of new products, with plastics taking the lead.

Reason, say industry spokesmen, present polymer technology could easily turn up products to replace asbestos in most end-uses.