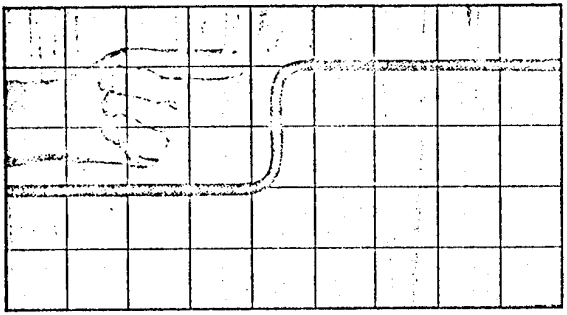
MONSANTO
CHEMICALS — PLASTICS



Step up vinyl production 33% to 100% without adding to your equipment

You can increase your output of extruded and calendered polyvinyl chloride products without adding new machinery. This forward step in efficiency is made possible by Monsanto's fast-fusion type plasticizers, Santicizer* 141, Santicizer 140 and Santicizer 160. Production increases generally are 33%, but, in some cases, they go up more than 100%.

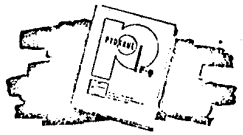
This extra volume is yours without sacrificing quality. Often better quality results from the use of these Monsanto plasticizers. You may add such advantages as flame resistance, low toxicity, improved low-temperature flexibility and other characteristics to improve your sales.

With the proper selection of your plasticizer or plasticizer blend, you will gain one or more of these advantages:

1. The Banbury cycle on the average can be speeded up 33% (in some cases more than 100%), increasing production as much as ONE-THIRD.
2. The Banbury rotor speeds can be REDUCED, lowering power demand without increasing the time needed to process . . .
3. The processing temperature can be reduced, eliminating danger of discoloring without lengthening the time cycle.
4. The peak power demand can be lowered and the average horsepower over a processing cycle reduced.
5. Increased amounts of fillers, stabilizers and lubricants need not increase the processing time.

For information on these production-boosting, cost-cutting, quality-building plasticizers, contact the nearest Monsanto Sales Office or mail the coupon for a copy of Monsanto's new booklet *"Increased Capacity Through Faster Processing of Polyvinyl Chloride."*

VALUABLE DATA FOR USERS OF HYDRAULIC FLUIDS



Just off the press is Monsanto's booklet, *"Pydraul F-9 . . . A report to engineering executives on a new nonflammable-type hydraulic fluid."* The 12-page, file-size booklet gives valuable data for operators of die-casting machines, automatic riveters, automatic equipment, hydraulic presses and other equipment in which a nonflammable-type pressure transfer liquid is desirable.

The booklet gives specific details on the following characteristics of Pydraul* F-9: Fire resistance . . . high lubricity . . . noncorrosiveness . . . chemical stability . . . nonreactive qualities . . . pumpability . . . insolubility in water . . . nonvolatility. Pydraul F-9 contains no water or inorganic salts.

If you are interested in adding the extra safety of a nonflammable-type hydraulic fluid, plus the advantages of economy and efficiency, mail the coupon for a copy of the Pydraul F-9 booklet.

Research Chemists' Corner

You may find something new here

HERE'S A CHEMICAL WORTH INVESTIGATING

Properties of Monsanto Polychlorobenzene, Technical, indicate possibilities in a great variety of applications. Perhaps they suggest uses in your industry. Have a look at properties listed below. Then, if you are a qualified chemist and want to do some research, we'll be glad to supply you with samples. The coupon is for your convenience.

Typical Properties of Polychlorobenzene

Appearance	Dark brown liquid and solid
Crystallizing point	27.8°C.
Acidity (mg. NaOH/gram)	0.032
Specific Gravity at 100°, 15.5°C.	1.494

Fractional Distillation (one sample)

Dichlorobenzene	2.2%
Trichlorobenzene	22.8%
1,2,3,4-Tetrachlorobenzene	51.8%
1,2,4,5-Tetrachlorobenzene	5.8%
Residue (Pentachlorobenzene, Hexachlorobenzene and other high boiling residue)	17.4%
Crystallizing Point of tetra fraction	40.00°C.

Solubility of Polychlorobenzene in Oil

In Monsanto tests the material dissolved readily in regular lubricating oil, SAE No. 10, at 25°C. Five per cent increments of the sample (by weight) were added to the oil until a weight equal to that of the oil itself had been added. No separation occurred, indicating good solubility of the material in this oil.