

The Calgary works has now been taken over by the Consolidated Mining and Smelting Company of Canada, Limited, and the Welland Works has been purchased by the North American Cyanamid, Limited.

Organic Chemicals.—In the manufacture of organic chemicals there has been outstanding progress in recent years. Mention has been made already of the Shawinigan Chemicals, Limited, which is the leading company in this field, and is concerned mostly with products based on acetylene, including butyl acetate, ethyl acetate, acetone, acetylene black, acetic anhydride, acetaldehyde, croton aldehyde, pentasol acetate, vinyl acetate, vinyl resins, dibutyl phthalate and butyl alcohol. Chloral crotonic acid and monochloroacetic acid are post-war additions to the lines made by this company.

The principal producer of coal tar derivatives is the Dominion Tar and Chemical Company, Limited, Toronto, Ont., which makes cresylic acid, phenol, cresol, ortho cresol, para cresol, xylenols and naphthalene. Several coke-oven operators recover xylol, toluol and benzol; a number of explosives plants make dinitrotoluol, nitroglycerine and trinitrotoluene; the Standard Chemicals, Limited, Montreal, Que., and the Canadian Industrial Alcohol Company at Lindsay, Ont., recover methyl alcohol, and acetone by the destructive distillation of hardwoods; perchlorethylene and trichlorethylene are made at Shawinigan Falls, Que., by the Canadian Industries, Limited, and by Defence Industries, Limited. In 1941 the Naugatuck Chemicals, Limited, Elmira, Ont., started to make aniline oil, diphenylamine and certain accelerators and plasticizers for the rubber and plastics industries. Acetanilide, nitrobenzole and D.D.T. have since been added to its products.

The manufacture of styrene and butadiene for synthetic rubber began in late 1943, at the huge works of the Polymer Corporation, Limited, at Sarnia, Ont., and cumene, butane and propane are recovered from refineries in Sarnia, Ont., Montreal, Que., and Calgary, Alta. Industrial alcohol is made by a number of liquor distilleries and in 1943 the Ontario Paper Company, Limited, at Thorold, Ont., began to make ethyl alcohol from sulphite liquor obtained from the paper mill at that point. Late in 1947 work was started on a large plant at Gatineau, Que., to make alcohol from the sulphite liquor from the paper mill at that point.

Phosphorus Compounds.—Phosphorus, phosphate chemicals and chlorates are produced by the Electric Reduction Company of Canada, Limited, at Buckingham, Que., which is the sole producer of these items in this country. Established in 1897 to utilize the phosphate ores in the vicinity, this plant has been operating mainly on imported rock in late years. Phosphorus and phosphoric acid were the main products for most of this period, but in the past decade the Company has developed a very diversified line of chemicals including monosodium phosphate, disodium phosphate, trisodium phosphate, anhydrous tetrasodium phosphate, calcium phosphide, acid calcium phosphate and sodium acid pyrophosphate, also barium chlorate, ammonium chlorate, sodium perchlorate, potassium chlorate and potassium perchlorate. Both amorphous and yellow phosphorus are made in this works.

Superphosphates for fertilizers are made by Canadian Industries, Limited, at McMasterville, Que., Hamilton, Ont., and New Westminster, B.C., and by the Consolidated Mining and Smelting Company of Canada, Limited, at Trail, B.C. The latter concern also makes ammonium phosphate fertilizers.