CANADA

THE PRIMARY PLASTICS INDUSTRY

1956

Published by Authority of
The Honourable Gordon Churchill, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section

6512-595-126 Price 25 cents Vol. 2—Part XVIII—G-1

EDMOND CLOUTIER, C.M.G., O.A., D.S.P., Queen's Printer and Controller of Stationery, Ottawa, 1958

NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** – The Primary Industries, including mining, forestry and fisheries; **Volume II** – Manufacturing; **Volume III** – Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

I – General Review of the Manufacturing Industries, $1.50
II – The Manufacturing Industries of Canada, (7 sections, as follows:)
- Section A. Summary for Canada, 25¢
- Section B. Atlantic Provinces, 50¢
- Section C. Quebec, 25¢
- Section D. Ontario, 25¢
- Section E. Prairie Provinces, 40¢
- Section F. British Columbia, 25¢
- Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢

III – Foods and Beverages
IV – Tobacco and Tobacco Products
V – Rubber Products
VI – Leather Products
VII – Textile Mills
VIII – Knitting Mills
IX – Clothing
X – Wood and Paper Products
XI – Printing Trades
XII – Iron and Steel Products
XIII – Transportation Equipment
XIV – Non-ferrous Metal Products
XV – Electrical Apparatus and Supplies
XVI – Non-metallic Mineral Products
XVII – Products of Petroleum and Coal
XVIII – Chemicals and Allied Products
XIX – Miscellaneous Manufactures

The present report belongs in Part XVIII, Chemicals and Allied Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

A – General Review, 25¢
B – The Acids, Alkalies and Salts Industry, 25¢
C – The Fertilizers Industry, 25¢
D – The Fertilizer Trade in Canada, 25¢
E – The Medicinal and Pharmaceutical Preparations Industry, 25¢
F – The Paints, Varnishes and Lacquers Industry, 25¢
G – The Primary Plastics Industry, 25¢
H – The Soaps, Washing Compounds and Cleaning Preparations Industry, 25¢
I – The Toilet Preparations Industry, 25¢
J – The Vegetable Oils Industry, 25¢
K – The Inks Industry, 25¢
L – The Adhesives Industry, 25¢
M – The Polishes and Dressings Industry, 25¢
N – The Compressed Gases Industry, 25¢
O – The Coal Tar Distillation Industry, 25¢
P – The Miscellaneous Chemical Products Industry, 25¢

THE PRIMARY PLASTICS INDUSTRY
1956

The value of factory shipments in 1956, reported by firms in the Primary Plastics Industry in Canada amounted to $82,738,552, an increase of 10.2 per cent over the 1955 total of $75,052,166.

This industry covers the operations of establishments engaged chiefly in the manufacture of synthetic resins in the forms of sheets, rods, tubes, granules or liquids for use in further manufacture. Included as well are firms manufacturing transparent cellulose film and certain producers of laminates who make their own synthetic resins. Not all producers of synthetic resins were included in this group as some concerns made synthetic resins as secondary or minor products or as intermediates for the further use of the producers. Statistics relating to the latter have been included in the appropriate industries which are reviewed in separate bulletins. Separate figures for the production of specified synthetic resins are shown in table 5. Figures for other types of synthetic resins are not shown separately as many of the individual items were made by only one or two firms. However, as special compilation, which gives a fairly good summary of the total output of synthetic resins, as gathered up from all industries, is shown in table 4. A list of the products made by the factories in this group is shown in the directory which appears at the back of this bulletin.

Note: Figures for value added by manufacture, shown in Table 1, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954 and later years information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figures.

TABLE 1. Principal Statistics of the Primary Plastics Industry, 1947-1956

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture[1]	Gross selling value of products[1]
	No.	No.	$	$	$	$	$
1947	10	1,060	2,351,244	203,221	5,176,706	6,402,598	11,782,525
1948	12	1,149	2,770,529	331,932	7,630,498	8,478,317	16,440,747
1949	14	1,286	3,496,087	461,318	10,897,184	9,663,717	21,022,219
1952	16	1,850	6,505,167	734,518	18,774,923	15,129,313	34,638,754
1953	19	2,160	7,916,418	904,454	24,497,716	19,139,712	44,541,882
1954	22	2,808	11,190,653	1,685,824	30,973,562	26,892,324	58,881,800
1955							
Quebec	6	1,765	6,941,812	642,560	14,357,528	16,149,268	30,765,568
Ontario	12	715	2,744,142	420,115	17,652,754	9,037,565	26,857,884
Alberta	2	556	2,646,553	427,946	8,254,700	8,573,669	17,428,714
British Columbia	3						
Canada	**23**	**3,036**	**12,332,507**	**1,490,621**	**40,264,982**	**33,760,502**	**75,052,166**
1956							
Quebec	8	1,900	7,962,824	792,170	19,227,954	15,238,316	34,982,374
Ontario	12	763	3,096,598	509,226	18,583,821	11,177,352	30,497,681
Alberta	2	597	2,795,750	401,688	9,100,032	8,471,153	17,258,497
British Columbia	3						
Canada	**25**	**3,260**	**13,855,172**	**1,703,084**	**46,911,807**	**34,886,821**	**82,738,552**

Note: Separate statistics for this industry were not compiled before 1947.

1. See footnote to Text.

TABLE 2. Inventories[1], 1956

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	$	$	$	$
Opening:				
Quebec	2,245,879	260,286	2,368,825	4,874,990
Ontario	1,806,794	516,618	2,039,335	4,362,747
Alberta and British Columbia	1,381,468	52,333	807,239	2,241,040
Canada	**5,434,141**	**829,237**	**5,215,399**	**11,478,777**
Closing:				
Quebec	2,557,397	603,995	2,301,182	5,462,574
Ontario	2,254,953	507,957	1,820,714	4,583,624
Alberta and British Columbia	2,069,249	30,171	1,543,777	3,643,197
Canada	**6,881,599**	**1,142,123**	**5,665,673**	**13,689,395**

1. Book value of all manufacturing inventories owned and held at plant and plant warehouses.

Note: (1). Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Primary Plastics Industry for the year under review are shown in the above table.

(2). The opening inventory for 1956 does not necessarily agree with the closing inventory for 1955 because of revisions, such as the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the revisions mentioned above.

TABLE 3. Materials and Supplies Used in the Primary Plastics Industry, 1955 and 1956

Material		1955		1956	
		Quantity	Cost at works	Quantity	Cost at works
			$		$
Acetic anhydride	lb.	38,045	11,881	189,893	27,134
Alcohol — Butyl (including isobutanol)		—	1	1,080,934	169,024
Ethyl	Imp. gal.	26,631	19,179	23,232	14,968
Isopropyl	lb.	372,353	22,825	538,037	33,359
Methyl	Imp. gal.	880,340	311,959	1,193,125	385,436
Benzene	lb.	8,991,989	489,415	20,580,093	989,546
Casein	"	—	1	495,069	122,457
Carbon bisulphide	"	4,623,829	279,367	4,202,595	241,082
Cellulose acetate flake	"	—	1	34,000	12,077
Chlorine, liquid	"	438,895	13,803	496,821	15,720
Cresol (including cresylic acid)	"	561,612	71,524	669,514	88,620
Dyes and pigments	—	—	505,880	—	660,734
Ethyl acetate	lb.	638,038	30,468	948,376	127,790
Ethylene glycol	"	3,601,849	537,315	4,490,889	702,283
Fatty acids — Oleic	"	—	1	12,051	1,749
Stearic	"	—	1	61,406	9,446
Other	"	—	1	1,348,183	180,131
Formaldehyde	"	42,141,518	1,508,938	51,691,201	1,866,261
Glycerine	"	3,279,346	1,073,628	3,698,069	1,185,102
Maleic anhydride	"	—	1	99,163	26,704
Oils, vegetable — Castor	"	1,177,988	166,619	1,218,225	194,657
Chinawood	"	—	1	180,911	51,603
Linseed	Imp. gal.	119,055	158,960	107,623	170,595
Soya bean	lb.	6,357,183	846,972	6,237,960	907,870
Tall	"	—	1	109,104	7,561
Other vegetable oils	—	—	58,595	—	50,489
Pentaerythritol	lb.	1,279,487	410,400	1,374,061	426,231
Phenol	"	18,680,447	2,755,827	22,923,751	3,678,639
Phthalic anhydride	"	5,813,905	1,149,096	7,033,016	1,312,050
Plasticizers (reported as such)	"	2,731,669	948,872	2,823,567	1,029,773
Resorcinal	"	—	1	154,145	113,259
Sodium hydroxide (caustic soda)	"	18,782,797	475,624	21,828,322	558,473
Sulphuric acid, 100%	"	30,012,161	503,473	34,034,648	499,231
Urea crystals	"	4,964,042	275,677	6,391,461	343,016
Wood pulp	"	39,006,780	4,068,437	39,381,839	4,013,863
Wood flour	"	2,731,481	65,915	3,052,295	75,796
Xylol	"	—	1	3,892,155	190,473
All other materials and process supplies	—	—	21,485,470	—	24,861,608
Shipping containers and packaging materials	—	—	1,968,863	—	1,566,997
Total	—	—	**40,264,982**	—	**46,911,807**

1. Not separately specified in 1955.

Total Production of Synthetic Resins in Canada

Separate figures for the production of synthetic resins are not published as many of the individual items are made by only one or two firms; nor is it possible to classify all producers of synthetic resins to the Primary Plastics group. Alkyd resins, for example, are made in the paints and varnishes industry, vinyl resins in the heavy chemical industry, and so on. The Bureau has made, therefore, a special compilation which gives a fairly good summary of the total output value as gathered up from all industries, this being shown below. The values cover only the products made for sale as there is no adequate record of the intermediates made for the further use of the producers. The output in 1956 was around $50,530,000 compared with $49,430,000 in 1955.

TABLE 4. Total Production of Synthetic Resins[1] in Canada, 1948-1956

Year	Selling value at works
	$
1948	11,998,000
1949	14,371,000
1950	19,068,000
1951	23,097,000
1952	19,100,000
1953	26,251,000
1954	36,647,000
1955	49,430,000
1956	50,530,000

1. Includes casein-type, vinyls, polystyrene, alkyds, phenol-formaldehyde, urea-formaldehyde, sodium carboxymethylcellulose, polyethylene, cellulose acetate, nylon flake, etc.

TABLE 5. Factory Shipments[1] of Specified Synthetic Resins, 1955 and 1956

Item	1955		1956	
	Quantity[2]	Selling value at works	Quantity[2]	Selling value at works
	lbs.	$	lbs.	$
Alkyd (excluding polyester)	15,445,444	4,578,582	15,988,593	5,172,376
Phenol-formaldehyde	40,186,767	7,096,013	51,872,298	9,212,336
Urea-formaldehyde	11,574,848	1,379,990	14,161,995	1,511,250
Total	**64,549,591**	**13,146,140**	**82,022,886**	**15,895,962**

1. Does not include resins made for own or captive use such as alkyds in paints, phenol-formaldehyde in laminates; however, phenol-formaldehydes and urea-formaldehydes sold as glues are included in the relevant categories.
2. Includes all forms; moulding powders, solutions, etc. as reported which in some instances (e.g. glues) was gross weight of product and, therefore, quantity data are not necessarily indicative of total net weight of resin produced.

TABLE 6. Principal Statistics of the Primary Plastics Industry, Grouped According to Size of Establishment, 1955 and 1956

Establishments reporting a value of factory shipments	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	$	$	$	$
1955						
$50,000 to $99,999	1	52	185,949	25,442	762,644	1,061,231
$100,000 to $199,999	3					
$200,000 to $499,999	1					
$500,000 to $999,999	3	48	191,542	29,417	1,561,826	2,275,788
$1,000,000 to $4,999,999	10	1,000	3,934,918	621,053	15,279,230	26,236,133
$5,000,000 and over	5	1,707	6,967,562	814,709	22,661,282	45,479,014
Head offices	—	229	1,052,536	—	—	—
Totals	**23**	**3,036**	**12,332,507**	**1,490,621**	**40,264,982**	**75,052,166**
1956						
$50,000 to $99,999	2	23	61,473	5,827	204,574	292,172
$100,000 to $199,999	1					
$200,000 to $499,999	3	45	177,211	19,968	965,418	1,088,382
$500,000 to $999,999	3	73	264,329	57,402	1,619,007	2,378,450
$1,000,000 to $4,999,999	10	856	3,480,214	467,464	15,950,834	25,450,659
$5,000,000 and over	6	1,981	8,496,630	1,152,423	28,171,974	53,528,889
Head offices	—	282	1,375,315	—	—	—
Totals	**25**	**3,260**	**13,855,172**	**1,703,084**	**46,911,807**	**82,738,552**

TABLE 7. Employees and Their Earnings in the Primary Plastics Industry, 1955 and 1956

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						$	$	$
1955								
Quebec	515	196	997	57	1,765	3,215,157	3,726,655	6,941,812
Ontario	143	57	489	26	715	888,313	1,855,829	2,744,142
Alberta and British Columbia	183	50	318	5	556	1,101,499	1,545,054	2,646,553
Canada	**841**	**303**	**1,804**	**88**	**3,036**	**5,204,969**	**7,127,538**	**12,332,507**
1956								
Quebec	564	215	1,066	55	1,900	3,760,859	4,201,965	7,962,824
Ontario	155	56	530	22	763	978,943	2,117,655	3,096,598
Alberta and British Columbia	211	47	333	6	597	1,173,770	1,621,980	2,795,750
Canada	**930**	**318**	**1,929**	**83**	**3,260**	**5,913,572**	**7,941,600**	**13,355,172**

TABLE 8. Production Workers, by Months, 1955 and 1956

Month	1955			1956		
	Male	Female	Total	Male	Female	Total
	Number					
January	1,695	85	1,780	1,882	86	1,968
February	1,701	93	1,794	1,923	87	2,010
March	1,741	91	1,832	1,912	83	1,995
April	1,768	88	1,856	1,884	78	1,962
May	1,773	84	1,857	1,947	82	2,029
June	1,822	86	1,908	1,970	89	2,059
July	1,858	100	1,958	2,025	87	2,112
August	1,858	97	1,955	1,989	89	2,078
September	1,864	90	1,954	2,025	82	2,107
October	1,828	84	1,912	1,615	82	1,697
November	1,881	85	1,966	1,986	84	2,070
December	1,868	86	1,954	2,018	78	2,096
Average	**1,804**	**88**	**1,892**	**1,929**	**83**	**2,012**

TABLE 9. Capital and Repair Expenditures in the Primary Plastics Industry, 1952-1956

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	$'000						
1952	4,128	7,859	11,997	242	711	953	12,950
1953	1,273	13,267	14,540	227	1,065	1,292	15,832
1954	297	1,932	2,229	295	1,524	1,819	4,048
1955	682	1,918	2,600	291	1,834	2,125	4,725
1956[1]	1,991	5,524	7,515	522	2,715	3,237	10,752

1. Preliminary.

TABLE 10. Imports into Canada of Plastics and Manufactures Thereof, 1955 and 1956

Item	Value	
	1955	1956
	$	$
Casings, synthetic, for meats and meat products	469,369	422,608
Esters, or ethers, or combinations thereof, of cellulose, without admixture	1,511,755	1,642,483
Esters, or ethers, or combinations thereof, of cellulose, compounded with other materials, for moulding, casting, extruding or pressing	798,888	1,006,226
Foamed and expanded cellulose plastics in blocks, boards, granules or powder	53,672	14,613
Compositions of esters or ethers of cellulose with other materials, n.o.p.	36,130	51,108
Cellulose plastic plates, sheets, strip, film, blocks, bars, rods, tubes or other primary shapes	1,322,128	1,592,036
Reinforced or supported cellulose plastic plates, sheets, strip, tubing, blocks, bars, rods, in which is incorporated a layer of paper, fibreboard or textile fabric, or a core of fibres, whether matted or otherwise	516,740	550,436
Laminated moulded plastic products having cellulose plastics as the chief binding agents	169,211	269,589
Cellulose nitrate sheets with turned edges, for the production of printers' engravings	129,277	138,722
Manufactures of cellulose plastics, n.o.p.	1,426,515	1,628,896
Manufactures of regenerated cellulose, n.o.p.	1,765,609	1,695,135
Synthetic resins without admixture	14,849,640	17,731,090
Synthetic resins in solutions or solvents	3,833,735	4,313,072
Synthetic resins compounded with other materials for moulding, casting or extruding, including uncured preforms or blanks for compression moulding	4,470,980	4,582,761
Foamed and expanded synthetic resins in logs, blocks, boards, flakes, granules or powder	647,602	605,071
Synthetic resin compositions, n.o.p.	1,741,377	1,699,446
Synthetic resins or protein plastics in bars, rods, sheets, plates, strip, film, tubing or other primary shapes, n.o.p., whether coated or decorated or not	7,506,261	9,546,292
Reinforced or supported synthetic resin plates, sheets, strip, tubing, blocks, bars, rods, in which is incorporated a layer of paper, fibreboard or textile fabric, or a core of fibres, whether matted or otherwise	1,610,012	1,538,314
Laminated moulded plastic products having synthetic resins as the chief bonding agents	527,571	721,601
Manufactures, n.o.p., of synthetic resins, or of protein plastics	11,582,438	14,621,136

TABLE 11. Exports from Canada of Synthetic Resins and Synthetic Resin Products, 1955 and 1956

Item		1955	1956
Synthetic resins, n.o.p.	lb.	13,500,720	20,587,909
	$	6,125,106	10,095,006
Synthetic resins, manufactures of	$	1,221,603	1,581,456
Polystyrene resin	lb.	22,740,800	21,104,400
	$	7,009,108	6,174,136

TABLE 12. Exports of Synthetic Resins and Plastics from the United States to Canada, 1955 and 1956

(From the "United States Exports of Domestic and Foreign Merchandise")

Item	1955		1956	
	Quantity	Value	Quantity	Value
	Pounds	$	Pounds	$
Ester gums, except laminated	3,308,000	624,000	2,898,000	559,000
Styrene polymer and copolymer resins, 60 per cent or more styrene	4,127,000	1,387,000	4,651,000	1,468,000
Alkyd resins	9,004,000	2,280,000	8,227,000	2,182,000
Vinyl and vinyl copolymer resins, uncompounded	13,361,000	3,970,000	15,704,000	4,280,000
Vinyl and vinyl copolymer resins, compounded	1,923,000	802,000	2,696,000	958,000
Vinyl and vinyl copolymer resins, semi-finished	750,000	524,000	1,041,000	874,000
Vinyl resin scrap in any form	187,000	44,000	77,000	16,000
Tar acid resins, powder, flake, lump, etc.	10,257,000	2,636,000	9,290,000	2,402,000
Urea-formaldehyde, melamine-formaldehyde and other amine resins	7,958,000	2,533,000	9,431,000	2,891,000
Resins, n.e.c., unfinished and semi-finished	22,284,000	7,092,000	34,280,000	9,267,000
Film and sheeting, synthetic resin	8,364,000	6,774,000	9,351,000	7,371,000
Phenol and cresol-formaldehyde laminated sheets, plates, etc.	839,000	938,000	701,000	902,000
Laminated and moulded-laminated plastics, n.e.c.	1,509,000	1,166,000	1,809,000	1,376,000
Cellulose ethers and derivatives in all unfinished forms	295,000	294,000	546,000	457,000
Cellulose nitrate scrap and film scrap	61,000	21,000	1,000	1,000
Cellulose nitrate sheets, rods, tubes and similar forms	108,000	155,000	168,000	243,000
Cellulose acetate moulding and extrusion compositions	1,551,000	891,000	1,778,000	970,000
Cellulose acetate plastics for other uses, in unfinished forms	2,730,000	2,206,000	3,102,000	2,638,000
Cellulose acetate plastic scrap in any form	105,000	16,000	62,000	10,000
Regenerated cellulose, excluding rayon, in rolls and sheets	1,186,000	771,000	649,000	483,000
Vulcanized fiber sheets, rolls and other shapes made therefrom	1,325,000	583,000	1,373,000	618,000

TABLE 13. Fuel and Electricity Used in the Primary Plastics Industry, 1956

Kind	Unit of measure	Quantity	Cost at works
			$
Bituminous coal (a) from Canadian mines	ton	34,125	384,422
(b) imported	ton	4,456	47,471
Gasoline	Imp. gal.	74,983	27,177
Kerosene or coal oil	Imp. gal.	1,059	286
Fuel oil	Imp. gal.	2,123,417	213,481
Gas (a) Liquefied petroleum gases	Imp. gal.	80,093	13,471
(b) Other manufactured gas	1,000 cu. ft.	6,119	5,961
(c) Natural gas	1,000 cu. ft.	2,300,211	314,716
Other fuel	–	–	215,727
Electricity purchased	k.w.h.	89,338,591	480,372
Total	–	–	**1,703,084**
Electricity generated for own use	k.w.h.	12,366,056	–

List of Firms in the Primary Plastics Industry, 1956

Name and location of plant	Principal product made
Quebec:	
Canadian Plastics Limited, 1850 St., Antoine St., Montreal	Synthetic resin (casein type)
Canadian Resins & Chemicals Limited, Cedar Ave., Shawinigan Falls	Synthetic resin (vinyl chloride type); vinyl film, sheeting and granular; dioctyl phthalate; 2 ethyl hexanol; vinyl chloride monomer; plasticizers
Dupont Company of Canada Limited, Shawinigan Falls	Cellulose film ("Cellophane") cellulose sponges; polythene film and tubing
Monsanto (Canada) Limited, 425 St. Patrick St., Ville La Salle	Synthetic resin (polystyrene, vinyl chloride and phenol formaldehyde types)
Panelyte Division, St. Regis Paper Co. (Canada) Ltd., Montcalm Blvd., St. Jean	Synthetic resin (for own use) (phenol-formaldehyde type); laminated plastic sheets, rods and tubes; door panels
Reichhold Chemicals (Canada) Limited, Ste. Therese de Blainville	Synthetic resin (phenol-formaldehyde and urea-formaldehyde types); phthalic anhydride
Trilon Chemical Limited, 260 Victoria St., Lachine	Synthetic resin (urea-formaldehyde type)
Waldor Enterprises Ltd., 7493-19th Ave., Ville St. Michel	Synthetic resin (compounded only)
Ontario:	
Bakelite Company, Division of Union Carbide Canada Limited, Belleville	Synthetic resins (phenol-formaldehyde type); phenolic impregnated and laminated sheets; formaldehyde
Canadian General Electric Co. Ltd., 940 Lansdowne Ave., Toronto	Synthetic resin (alkyd type); insulating varnish
Dow Chemical of Canada Limited, Sarnia	Synthetic resin (polystyrene type); latex; styrene
Goodrich, B.F., Chemical Co., 251 King St. W., Kitchener	Synthetic resin (compounded only (vinyl chloride type
Kayson Rubber & Plastics Limited, 144 Water St. S., Galt	Synthetic resin (compounded only) (cellulose acetate, polyethylene, polystyrene and vinyl chloride types)
Polyresins Limited, Beechwood Drive, Toronto	Polyvinyl resinous emulsions
Reichhold Chemicals (Canada) Limited, 1919 Wilson Ave., Weston	Synthetic resin (alkyd and phenol-formaldehyde type)
Rohm & Haas Company of Canada Ltd., 2 Manse Rd., West Hill	Synthetic resin (alkyd type); agricultural dusts & sprays, epoxidized soyabean oil
Schenectady Varnish Canada Ltd., 409 Comstock Rd., Scarborough	Synthetic resin (alkyd and phenol-formaldehyde types); insulating varnish
T C F of Canada Ltd., Cornwall	Cellulose film
Varcum Chemical Corp. (Canada) Ltd., St. David St., Lindsay	Synthetic resin (compounded only) (phenol-formaldehyde type)
Woburn Chemicals Limited, 184 Laird Drive, Leaside	Synthetic resin (alkyd type); processed oils
Alberta:	
Canadian Chemical Co. Ltd., Box 99, Edmonton	Synthetic resin (cellulose acetate type)
Canadian Industries (1954) Limited, P.O. Box 428, Edmonton	Synthetic resin (polythene type)
British Columbia:	
American Marietta Company of Canada Limited, Keary St., New Westminster	Synthetic resin (phenol-formaldehyde type)
Monsanto Canada Limited, 1550 Rand Ave., Vancouver	Casein glues, wood preservatives, weed killers, synthetic resin glues
Reichhold Chemicals (Canada) Limited, Foot of Douglas St., Fort Moody	Synthetic resins (phenol-formaldehyde, urea-formaldehyde and alkyd types)