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ANNUAL INDUSTRY REPORTCHEMICALS AND ALLIED PRODUCTS GROUPTHE MISCELLANEOUS CHEMICAL PRODUCTS INDUSTRY, 1940

This industry covers the operations of a considerable number of concerns which make chemical products but which, because of the diversified nature of their output, cannot be classified to any of the other main chemical groups.

The 140 plants reporting in this industry were arranged in 6 sub-groups, in accordance with the nature of their main products, as follows - insecticides, 22 plants; disinfectants, 9; plastics and moulded products, 12; boiler compounds, 10; sweeping compounds, 10; and miscellaneous, 77. These works employed a monthly average of 7,111 people, paid \$8,496,297 in salaries and wages, and made goods worth \$37,450,041. In the previous year the number of factories was reported at 145, employees at 4,196, salaries and wages at \$5,429,827 and products at \$25,788,906.

A brief review for each of these sub-groups is given below and the principal statistics for each are shown in Table 1. Separate figures on materials and products are given in Tables 9 and 10.

PLASTICS AND MOULDED PRODUCTS - Twelve plants were allotted to this group, including 6 in Ontario and 6 in Quebec. Production was valued at \$3,838,841, of which \$229,379 was for celluloid articles, \$827,399 for goods made from plastics and \$2,663,077 for miscellaneous products, including cellophane. The number of employees in works in this group was 780 in 1940 and their salaries and wages amounted to \$911,339 for the year.

BOILER COMPOUNDS - Ten plants made boiler compounds as their main product, including 7 in Ontario, 2 in Quebec and 1 in British Columbia. Their output of boiler compounds was valued at \$513,677 and other products at \$39,506, a total of \$553,183. Fifty-nine people were given employment. The total output of boiler compounds in Canada, including some from other industries, totalled \$540,508 in 1940 as against \$456,655 in 1939.

SWEEPING COMPOUNDS - Production of sweeping compounds by the 10 plants in this group in 1940 amounted in value to \$57,054, which with other products worth \$78,779, brought the total output to \$135,833. An average of 39 workers were employed. The production of sweeping compounds from all industries amounted to \$76,499 in 1940 and \$67,358 in 1939.

INSECTICIDES - Twenty-two establishments made insecticides as their main products during 1940. Their gross output was worth \$1,093,095 including \$969,685 for insecticides and poisons and \$123,410 for miscellaneous products, such as, weed killer, disinfectants, etc. Among the chief products were lead arsenate, calcium arsenate, gopher poison, lime-sulphur solution, Paris green, miscellaneous household insecticides and agricultural sprays. The total output of insecticides from all industries totalled \$1,242,631 in 1940 and \$1,273,567 in 1939.

DISINFECTANTS - Nine plants made disinfectants as their chief products in 1940, and their total output was valued at \$265,645, compared with \$232,149 in 1939. This year's output included \$212,385 for disinfectants and deodorants, and \$53,260

for other lines. The output of disinfectants and deodorants from all industries was valued at \$642,302 in 1940 and \$583,378 in 1939.

MISCELLANEOUS CHEMICAL PRODUCTS - In 1940 a total of 77 plants reported in this group and the value of their production was \$31,563,444 compared with \$20,660,444 in the previous year. Capital investment for the group amounted to \$43,262,292 and employment was afforded to 6,000 people who received \$7,182,931 in salaries and wages.

Among the goods made in this group were matches at \$1,842,194; bakelite, moulded plastics, and vulcanized fibre at \$1,319,370; sulphonated oils at \$613,777; textile oils and chemicals at \$375,803; dyes at \$293,672 and lard oil, explosives, ammunition, fireworks, food colours, textile soaps, washing compounds, etc.

Data showing the total Canadian production of insecticides, disinfectants, boiler compounds and sweeping compounds, etc., are shown in Table 11.

Table 1 - PRINCIPAL STATISTICS, BY SUB-GROUPS, 1939 and 1940

Industry	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
<u>1939</u>							
Plastics and moulded products.	10	3,333,756	646	834,499	72,634	999,774	3,107,154
Boiler compounds..	10	371,632	60	66,285	3,038	155,185	477,546
Sweeping compounds	9	116,598	29	31,232	2,224	52,813	122,749
Insecticides	28	1,092,449	184	213,906	28,630	621,138	1,188,864
Disinfectants	10	271,427	60	82,334	3,538	72,788	232,149
Miscellaneous	78	20,001,032	3,217	4,201,521	396,482	8,341,035	20,660,444
TOTAL	145	25,246,894	4,196	5,429,827	506,546	10,242,733	25,788,906
<u>1940</u>							
Plastics and moulded products.	12	3,367,393	780	911,339	34,009	1,246,974	3,338,841
Boiler compounds..	10	398,297	59	72,974	3,535	177,695	553,183
Sweeping compounds	10	136,104	39	36,463	3,104	77,636	135,833
Insecticides	22	1,259,206	176	207,108	41,157	613,989	1,093,095
Disinfectants	9	276,591	57	85,482	3,882	79,768	265,645
Miscellaneous	77	43,262,292	6,000	7,182,931	711,013	14,219,575	31,563,444
TOTAL	140	48,699,883	7,111	8,496,297	846,700	16,415,637	37,450,041

Table 1 - PRINCIPAL STATISTICS, BY PROVINCES - 1939 and 1940

	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1939							
Quebec	43	16,017,759	2,730	3,328,099	345,397	5,375,063	13,650,068
Ontario	74	6,406,063	1,117	1,541,832	113,272	3,730,593	9,258,354
Manitoba	8	566,424	66	108,590	3,769	331,586	621,525
Alberta	5	31,895	7	3,740	176	15,308	25,082
British Columbia	10	2,078,194	245	408,771	41,678	707,839	2,096,094
Nova Scotia	2)	146,559	31	38,745	2,254	82,344	137,783
Saskatchewan ...	3)						
CANADA	145	25,246,894	4,196	5,429,827	506,546	10,242,733	25,788,906
1940							
Quebec	41	25,162,591	4,848	5,650,352	534,443	9,445,085	22,424,826
Ontario	73	20,537,956	1,856	2,195,744	247,937	5,109,779	11,520,508
Manitoba	8	602,439	64	102,178	5,161	490,757	683,057
Alberta	5	30,008	13	10,855	306	27,744	43,054
British Columbia	8	2,201,717	303	504,160	57,025	1,265,810	2,671,787
Nova Scotia	2)	165,172	27	33,008	1,828	76,462	106,809
Saskatchewan ...	3)						
CANADA	140	48,699,883	7,111	8,496,297	846,700	16,415,637	37,450,041

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1939 and 1940

Province	Present value of lands, buildings machinery and equipment	Inventory value of finished products and materials on hand and stocks in process	Operating capital (cash, bills and accounts receivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
1939				
Quebec	8,758,734	4,830,960	2,428,065	16,017,759
Ontario	2,450,714	1,983,289	1,972,060	6,406,063
Manitoba	314,654	99,215	152,555	566,424
Alberta	11,848	8,419	11,628	31,895
British Columbia	1,095,363	584,967	397,864	2,078,194
Other provinces.	54,663	55,161	36,735	146,559
CANADA	12,685,976	7,562,011	4,998,907	25,246,894
1940				
Quebec	11,732,322	9,572,846	3,857,423	25,162,591
Ontario	2,211,445	14,791,380	3,535,131	20,537,956
Manitoba	327,817	110,703	163,919	602,439
Alberta	7,848	9,240	12,920	30,008
British Columbia	1,011,982	731,572	458,163	2,201,717
Other provinces.	58,170	85,607	21,395	165,172
CANADA	15,349,584	25,301,348	8,048,951	48,699,883

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1939 and 1940

Province	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
					\$	\$	\$	
1939								
Quebec	381	124	1,588	657	2,730	1,222,010	2,103,039	3,328,099
Ontario	306	111	534	166	1,117	845,187	696,695	1,541,882
Manitoba	19	5	41	1	66	62,800	45,790	108,590
Alberta	3	...	4	...	7	2,180	1,560	3,740
British Columbia	47	17	179	2	245	189,683	219,088	408,771
Other provinces.	12	2	14	3	31	24,012	14,733	38,745
CANADA	768	259	2,360	809	4,196	2,345,372	3,083,955	5,429,327
1940								
Quebec	443	140	2,951	1,314	4,848	1,264,414	4,385,938	5,650,352
Ontario	446	148	1,059	203	1,856	929,786	1,265,953	2,195,744
Manitoba	16	4	43	1	64	51,324	50,854	102,178
Alberta	7	...	5	1	13	7,915	2,940	10,855
British Columbia	53	23	225	2	303	205,449	298,711	504,160
Other provinces.	13	2	11	1	27	22,920	10,088	33,008
CANADA	978	317	4,234	1,522	7,111	2,481,808	6,014,489	8,496,297

Table 5 - WAGE-EARNERS, BY MONTHS, 1939 and 1940 (On the last work-day of each month)

Month	1939			1940		
	Male	Female	TOTAL	Male	Female	TOTAL
January	2,104	768	2,872	2,693	926	3,619
February	2,177	713	2,890	2,778	1,023	3,806
March	2,235	735	2,970	2,921	1,081	4,002
April	2,180	726	2,906	3,007	1,079	4,086
May	2,156	747	2,903	3,187	1,125	4,312
June	2,263	774	3,037	3,707	1,568	5,275
July	2,286	763	3,049	4,113	1,718	5,831
August	2,260	805	3,065	4,624	1,782	6,406
September	2,450	831	3,281	5,004	1,924	6,928
October	2,558	926	3,484	5,365	1,925	7,290
November	2,679	959	3,638	6,603	2,041	8,644
December	2,779	956	3,735	7,502	2,065	9,567
AVERAGE	2,360	809	3,169	4,292	1,522	5,814

Table 6 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1940 (In one week of month of highest employment; overtime included)

Regular hours worked per week	No. of wage-earners		Regular hours worked per week	No. of wage-earners	
	Per cent of total	Per cent of total			
30 hours or less	600	5.7	51 - 54 hours ...	684	6.5
31 - 43 hours ..	952	9.0	55 hours	119	1.1
44 hours	438	4.1	56 - 64 hours ...	592	5.6
45 - 47 hours ..	521	4.9	65 hours and over	233	2.2
48 hours	6,034	57.2	TOTAL	10,549	100.0
49 - 50 hours ..	376	3.6	Total wages paid in selected week	\$220,317	

Table 7 - FUEL AND ELECTRICITY USED, 1939 and 1940

Kind	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	ton	26,636	165,923	36,908	239,877
Imported	ton	5,100	35,442	19,088	109,657
Anthracite coal	ton	922	10,245	3,942	32,401
Lignite coal	ton	400	1,537	368	1,430
Coke	ton	900	6,038	27	328
Gasoline	Imp. gal.	11,224	2,230	43,196	13,091
Kerosene	Imp. gal.	905	169	1,724	355
Fuel oil	Imp. gal.	674,218	32,147	770,068	42,287
Wood	cord	649	2,018	2,225	9,651
Gas - Manufactured	M cu. ft.	74,335	20,141	6,488	5,629
Natural	M cu. ft.	1,013	718	293,727	66,914
Other fuel .....	...	...	12,061	1,012	20,477
Electricity purchased	K. W. H.	72,781,149	219,144	85,044,871	304,603
TOTAL .....	...	...	506,546	...	846,700
Electricity generated for own use	K. W. H.	368,730	...	2,052,050	...

Table 8 - POWER EQUIPMENT, 1939 and 1940

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 3 9</u>				
Steam engines and steam turbines..	28	2,003	77	2,766
Gasoline, gas and oil engines	7	64	...	...
Hydraulic turbines or water wheels	2	230	...	...
Electric motors operated by purchased power	1,677	9,119	96	1,190
TOTAL.....	1,714	11,416	113	3,956
Electric motors operated by above primary units	40	477	17	199
Stationary boilers	38	4,970	13	5,044
<u>1 9 4 0</u>				
Steam engines and steam turbines..	46	7,198	19	3,516
Diesel engines	1	50	1	400
Gasoline, gas and oil engines	10	156	1	75
Hydraulic turbines or water wheels	4	101	...	...
Electric motors operated by purchased power	3,970	27,236	80	786
TOTAL	4,031	34,741	101	4,777
Electric motors operated by above primary units	133	4,570	7	80
Stationary boilers	49	6,242	12	4,909

Table 3 - MATERIALS USED IN MANUFACTURING, 1939 and 1940

Materials	Unit of measure	1939		1940	
		Quantity	Cost at works \$	Quantity	Cost at works \$
<u>Plastics and Moulded Products Group -</u>					
Celluloid and cellulose acetate sheets, rods, etc.	pound	157,712	80,136	160,764	91,046
Synthetic resins - moulding powder	pound	...	57,025	375,666	169,363
Containers, boxes, etc. ....	\$	...	57,631	...	58,248
All other materials .....	\$	...	804,982	...	927,817
Total .....	\$	...	999,774	...	1,246,974
<u>Boiler Compounds Group -</u>					
Sodium carbonate (soda ash) ...	pound	2,486,695	43,887	2,904,312	50,412
Sodium hydroxide (caustic soda)	pound	222,184	7,438	204,328	7,189
Sodium silicate	pound	476,960	6,490	420,803	5,491
Trisodium phosphate	pound	388,417	12,866	354,961	13,164
Containers, boxes, etc. ....	\$	...	13,841	...	12,181
All other materials .....	\$	...	70,603	...	89,258
Total .....	\$	...	155,185	...	177,695
<u>Sweeping Compounds Group -</u>					
Oils, mineral	pound	80,000	1,750	70,110	1,787
Trisodium phosphate	pound	86,800	3,515	87,050	3,482
Wax	pound	16,500	3,675	19,250	3,114
Containers, boxes, etc. ....	\$	...	400	...	25,998
All other materials .....	\$	...	43,473	...	43,255
Total .....	\$	...	52,813	...	77,636
<u>Insecticides Group -</u>					
Acetic acid	pound	122,466	10,824	99,599	8,686
Arsenic acid and white arsenic.	pound	4,287,435	132,584	3,607,444	122,265
Calcium arsenate	pound	268,050	22,649	342,452	21,671
Copper sulphate	pound	484,972	22,990	628,598	37,323
Insect powders	pound	30,870	4,882	35,478	6,203
Insect flowers	pound	33,900	13,358	2,970	888
Lead arsenate	pound	81,627	5,285	93,349	6,702
Litharge	pound	2,467,447	120,406	1,761,604	98,375
Lime	ton	986	11,032	1,209	12,366
Oils, essential .....	\$	...	3,565	...	3,841
Oils, all other	pound	...	18,378	...	13,029
Pyrethrum extract	pound	11,564	7,715	12,002	9,135
Sodium carbonate (soda ash) ...	pound	196,888	4,126	240,461	4,177
Strychnine	pound	2,598	11,058	4,058	24,414
Sulphur	pound	2,565,556	54,735	2,335,830	41,080
Containers, boxes, etc. ....	\$	...	106,123	...	119,670
All other materials .....	\$	...	71,428	...	84,159
Total .....	\$	...	621,138	...	613,989

Table 2 - MATERIALS USED IN MANUFACTURING, 1939 and 1940 - (Continued)

Materials	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Cost at works \$	Quantity	Cost at works \$
<u>Disinfectants Group -</u>					
Cresol	pound	10,312	2,166	4,737	2,485
Oils, essential .....	\$	...	7,667	...	14,284
Oils, creosote	pound	45,094	1,826	7,739	1,859
Oils, vegetable	pound	72,802	6,302	57,073	6,096
Oils, mineral	pound	79,841	6,334	70,203	7,000
Pyrethrum extract	pound	5,020	2,951	2,440	8,015
Solvents (benzol, naphtha, etc.)	Imp. gal.	14,103	2,071	16,843	2,089
Containers, boxes, etc. ....	\$	...	17,334	...	12,912
All other materials .....	\$	...	26,137	...	25,028
Total .....	\$	...	72,788	...	79,768
<u>Miscellaneous Group -</u>					
Acetone	pound	16,234	1,101	497,386	32,334
Alcohol, ethyl	proof gal.	16,890	13,991	22,321	20,476
Aluminium, rod and strip	pound	87,258	25,523	167,717	46,613
Ammonium nitrate	pound	14,704,684	362,840	15,390,793	456,508
Ammonia, anhydrous	pound	4,342,046	253,083	9,320,305	570,119
Bakelite .....	\$	...	52,805	...	...
Copper strip and wire	pound	383,450	68,833	883,158	209,118
Dyes for packaging .....	\$	...	25,605	...	122,301
Ethylene glycol	pound	1,757,960	209,191	1,796,624	224,922
Formaldehyde	pound	488,632	20,655	936,240	29,830
Glue	pound	399,788	83,718	341,687	71,713
Glycerine	pound	5,307,287	598,412	6,067,287	754,189
Grease	pound	1,907,610	99,421	1,829,214	152,170
Gunpowder	pound	714,867	227,924	1,142,991	440,731
Lead, pig	pound	800,831	35,668	3,324,621	151,341
Nitric acid	pound	4,051,921	172,501	12,316,453	598,979
Nitrocotton	pound	296,769	93,639	210,093	118,697
Oil, animal and fish	pound	4,154,692	119,308	1,845,115	148,901
Oil, castor	pound	1,263,718	93,350	1,389,213	126,752
Oil, cod	pound	360,040	49,021	1,140,978	57,335
Oil, neat's foot	pound	315,358	31,770	362,002	40,191
Oils, vegetable, other	pound	1,258,088	98,401	1,578,356	151,248
Oils, mineral	pound	1,687,205	55,870	1,365,122	48,178
Paper	pound	1,300,917	44,546	1,209,897	41,480
Phenol	pound	446,190	54,747	961,786	116,096
Phosphoric acid	pound	130,923	9,507	147,668	10,701
Potassium chlorate	pound	1,273,850	103,832	1,003,022	94,565
Potassium nitrate	pound	502,572	22,057	732,690	38,487
Resin (natural) .....	\$	...	128,591	...	187,487
Shot	pound	1,241,311	74,466	1,651,723	106,746
Sodium carbonate	pound	1,979,906	29,496	2,242,137	35,797
Sodium hydroxide (caustic soda)	pound	544,426	25,160	496,571	25,855
Sodium nitrate	pound	35,812,936	508,891	48,944,001	783,528
Sodium silicate	pound	31,460	1,045	21,800	410

Table 9 - MATERIALS USED IN MANUFACTURING, 1939 and 1940 - (Concluded)

Materials	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Cost at works \$	Quantity	Cost at works \$
<u>Miscellaneous Group (Con.)</u>					
Sulphur	pound	3,898,708	43,356	3,838,381	41,627
Sulphuric acid, 66° Be ...	pound	34,472,252	335,893	70,691,667	723,085
Wax of all kinds	pound	1,490,764	77,527	453,431	105,793
Wood, pulpwood, blocks and lumber .....	\$	...	469,819	...	453,004
Yarns, jute and cotton ...	\$	...	206,277	...	294,296
Containers, boxes, etc. ..	\$	...	656,736	...	749,896
All other materials .....	\$	...	2,756,459	...	5,838,076
Total .....	\$	...	8,341,035	...	14,219,575
GRAND TOTAL .....	\$	...	10,242,733	...	16,415,637

Table 10 - PRODUCTS MADE, 1939 and 1940

Products	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
<u>Plastics and Moulded Products -</u>					
Combs - Celluloid	12,063	...	17,643
Hard rubber	38,801	...	118,936
Plastic	No.	...	61,414	9,465,554	242,300
Toiletware and dresserware of celluloid	113,294	...	109,582
Celluloid articles, other	142,803	...	102,154
Sun glasses made from plas- tics	105,359	...	156,956
Plastics, other	353,022	...	427,643
All other products	2,274,898	...	2,663,077
Total	3,107,154	...	3,838,841
<u>Boiler Compounds -</u>					
Boiler compounds	446,537	...	513,677
All other products	31,009	...	39,506
Total	477,546	...	553,183
<u>Sweeping Compounds -</u>					
Sweeping compounds	50,853	...	57,054
All other products	71,896	...	78,779
Total	122,749	...	135,833
<u>Insecticides -</u>					
Calcium arsenate, lead arsen- ate, sodium arsenite, Paris green	479,340	...	460,416
Lime-sulphur solution	Imp.gal.	445,167	73,837	423,012	70,372
Rat poison	pound	...	7,926	4,044	7,927
Gopher poison	pound	...	64,437	231,410	69,201
Insect powders	15,641	...	14,019

Table 10 - PRODUCTS MADE, 1939 and 1940 (Concluded)

Products	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
<u>Insecticides (Concluded) -</u>					
Other insecticides .....	...	...	416,805	...	547,150
Other products .....	...	...	130,228	...	123,410
Total .....	...	...	1,188,864	...	1,093,095
<u>Disinfectants -</u>					
Disinfectants and deodorants .....	...	...	181,208	...	212,385
Insecticides .....	...	...	19,624	...	18,905
Other products .....	...	...	31,317	...	34,355
Total .....	...	...	232,149	...	265,645
<u>Miscellaneous Industry -</u>					
Bakelite, moulded plastics, and vulcanized fibre .....	...	...	1,485,505	...	1,319,370
Colours for butter, cheese and food .....	...	...	54,556	...	50,819
Dyes .....	...	...	163,219	...	293,672
Lard oil	pound	1,200,192	128,592	1,387,303	151,744
Matches .....	...	...	1,894,768	...	1,842,194
<u>Sulphonated oils -</u>					
Castor oil	pound	1,143,248	106,350	1,104,685	116,611
Neat's foot oil	pound	247,495	30,278	547,000	39,800
Cod oil	pound	551,395	32,729	868,000	123,943
Other sulphonated oils	pound	2,097,056	342,953	1,478,938	333,423
Textile and leather oils and chemicals, other .....	...	...	287,089	...	375,803
Textile soaps	pound	740,297	64,869	1,792,058	118,029
Washing compounds .....	...	...	43,024	...	49,428
All other products, including explosives .....	...	...	16,028,012	...	26,748,608
Total .....	...	...	20,660,444	...	31,563,444
GRAND TOTAL .....	...	...	25,788,906	...	37,450,041

Table 11 - TOTAL PRODUCTION IN CANADA OF CERTAIN MISCELLANEOUS CHEMICAL PRODUCTS, 1937 - 1940

NOTE: Figures in this table represent the total production in Canada regardless of the industries in which produced. They are subject to slight revision on further examination of reports.

Products	1937	1938	1939	1940
	\$	\$	\$	\$
Disinfectants and deodorants	363,830	360,452	583,378	642,302
Insecticides and poisons of all kinds	1,188,795	1,232,030	1,273,567	1,242,631
Dyes (blended)	249,110	205,305	163,219	293,672
Boiler compounds	402,246	419,528	456,655	540,508
Sweeping compounds	60,947	55,558	67,358	76,493
Matches	1,949,369	1,688,229	1,894,768	1,842,194
Weed killer	194,765	192,085	98,795	231,417

Table 12 - IMPORTS INTO CANADA OF MISCELLANEOUS CHEMICALS, 1939 and 1940

Items	1 9 3 9		1 9 4 0	
	Quantity	Value	Quantity	Value
		\$		\$
<u>Plastics and synthetic resins -</u>				
Manufactures of pyroxylin plastics, or of which pyroxylin plastic is the component of chief value, n.o.p.	401,722	...	440,260
Cellulose, regenerated, and cellulose acetate, transparent, in sheets, not printed, n.o.p.	195,853	...	240,917
Cellulose, regenerated, and cellulose acetate, manufactures of, n.o.p.	130,088	...	242,807
Cellulose acetate in sheets not less than ten one-thousandths of an inch in thickness, and in rods or bars, not further manufactured than moulded or pressed, when for use in Canadian manufactures	188,245	...	257,097
Sheet cellulose acetate, in rolls, when imported by manufacturers of sensitized photographic film, for use exclusively in the manufacture of sensitized photographic film in their own factories	22,988	...	35,333
Colloidon for use in films for photo engraving, and for engraving copper rollers, when imported by photo engravers and manufacturers of copper rollers Gal.	2,420	6,382	2,309	6,011
Pyroxylin and wood naphtha, preparations of, for coating imitation leather, and for the manufacture of leather belting...	...	7,684	...	4,237
Cellulose nitrate, or pyroxylin plastics, in tubes, cylinders, balls, strips, sheets, plates, blocks, bars, rods, angles, channels, tees or other shapes, not further manufactured than moulded or pressed, when for use in Canadian manufactures	775,297	...	1,005,334
Moulding compositions of cellulose acetate or other derivatives of cellulose, in powder or granular form	18,391	...	89,394
Interlined sheet stock, composed of sheets of cellulose plastics cemented to cotton fabrics	13,518	...	17,631
Synthetic resins, manufactures of, not otherwise provided for	378,506	...	455,996
Synthetic resin moulding compositions containing synthetic resin derived from phenol and formaldehyde, or their homologues or mixtures thereof, in powder or granular form	92,167	...	52,803

Table 12 - IMPORTS INTO CANADA OF MISCELLANEOUS CHEMICALS, 1939 and 1940 (Continued)

Items	1 9 3 9		1 9 4 0	
	Quantity	Value	Quantity	Value
		\$		\$
<u>Plastics and synthetic resins (Concluded) -</u>				
Synthetic resin moulding compositions, not otherwise provided for, in powder or granular form	61,939	...	157,938
Synthetic resins, not otherwise provided for, in liquid, powder, granular or lump form, or in cylinders, tubes, etc., not further manufactured than moulded, extruded or pressed, when for use in Canadian manufactures	994,367	...	1,410,161
Laminated products of which any synthetic resin is the chief binding agent, in tubes, cylinders, sheets, etc., not otherwise provided for -				
(a) With base of paper or of fibre-board	106,772	...	123,377
(b) With a base of cotton fabric or other woven fabric	15,680	...	42,162
Synthetic plastic materials with a base of casein, soybean, gelatine or starch, in tubes, cylinders, sheets, etc., not further manufactured than moulded, extruded or pressed, but not including casein, button blanks in the rough	23,810	...	22,365
Chlorine derivatives of india rubber insoluble in carbon tetrachloride, in sheets not exceeding two one-thousandths of an inch in thickness, coloured or not, but not printed, lithographed or embossed	27,138	...	38,175
Casings, synthetic, for meats or meat products	311,011	...	523,891
Total Plastics and Synthetic Resins..	...	3,817,692	...	5,176,489
<u>Disinfectants -</u>				
Chloropicrin, ethylene oxide or cyanides, or mixtures containing any of these, for use in combating destructive insects or pests	29,801	...	36,895
Preparations or chemicals, non-alcoholic, such as are used for disinfecting, dipping or spraying when in packages not exceeding 3 pounds each	66,785	...	93,427
Preparations or chemicals, non-alcoholic, for disinfecting, dipping or spraying, n.o.p., and materials, n.o.p., for manufacturing same	1,089,927	...	1,033,721

Table 12 - IMPORTS INTO CANADA OF MISCELLANEOUS CHEMICALS, 1939 and 1940 (Continued)

Items	1 9 3 9		1 9 4 0	
	Quantity	Value \$	Quantity	Value \$
<u>Dyeing and Tanning Materials -</u>				
<u>Coal Tar Products</u>				
Aniline and coal-tar dyes, in bulk or packages of not less than one pound lb.	5,530,254	3,965,068	5,644,550	4,655,386
Aniline and coal-tar dyes, n.o.p. .. lb.	26,562	34,070	43,112	44,377
Aniline oil, crude	209,776	22,059	412,808	44,343
Aniline salts, alizarin and artificial alizarin	41,003	7,322	55,240	12,647
Coal-tar base or salt for use in the manufacture of coal-tar dyes	792,178	551,830	665,334	489,308
<u>Other Dyeing and Tanning Materials -</u>				
Annatto, liquid or solid	23,771	4,332	20,583	3,535
Antimony salts for dyeing	537	97	...	...
Camwood and sumac and extract thereof	170,517	7,079	84,817	6,444
Cochineal	159	84	150	87
Indigo, indigo paste and extract of lb.	118,106	87,488	36,327	25,777
Iron liquor, being solution of acetate or nitrate of iron, adapted for dyeing and calico printing, and red liquor, being a crude acetate of aluminium, prepared for pyroligneous acid, and adapted for dyeing and calico printing	124,719	5,687	281,059	14,259
Logwood and fustic, ground, and ground oak bark	94,371	5,645	38,751	6,407
Logwood and fustic, extract of	465,814	69,716	361,254	60,456
Nut galls and extracts thereof	3,584	2,331	20,566	4,924
Oak, oak bark, quebracho and similar extracts, n.o.p.	19,376,911	738,560	17,237,029	793,129
Saffron, saffron cake, safflower, and extracts of	329	782	405	900
Terra japonica, gambier or cutch ..	382,752	24,724	380,360	25,794
Tumeric	128,936	7,811	149,538	9,957
Chemical compounds, composed of two or more acids or salts, soluble in water, adapted for dyeing or tanning	6,658,179	397,310	7,332,682	507,145
Non-edible seeds, beans, nuts, berries, plants, weeds, barks and woods, in a crude state or chipped or ground, and extracts and preparations thereof	11,077,057	324,977	17,666,737	554,206
Total Dyeing and Tanning Materials..	\$	... 6,257,072	... 7,265,081	

Table 12 - IMPORTS INTO CANADA OF MISCELLANEOUS CHEMICALS, 1939 and 1940 (Concluded)

Items	1 9 3 9		1 9 4 0			
	Quantity	Value	Quantity	Value		
<u>Insecticides -</u>						
Nicotine sulphate (x)	lb.	158,188	84,034	...	...
Paris green	lb.	25,806	4,320	27,150	5,714	
Arsenious oxide	lb.	516,236	7,976	3,167	250	
Copper, sulphate of (blue vitriol)	lb.	6,285,766	234,259	5,154,745	247,546	
Lead arsenate	lb.	568,344	49,238	490,512	40,966	
Calcium arsenate or arsenate of lime	lb.	389,557	23,643	85,852	5,283	
<u>Matches -</u>						
Matches of wood		\$...	4,440	...	4,769
<u>Turpentine -</u>						
Turpentine, raw or crude	lb.	84,217	3,518	77,756	3,266	
Turpentine, spirits of	lb.	1,437,072	420,143	1,312,903	489,070	

(x) To June 30th, 1939.

DIRECTORY OF FIRMS INCLUDED IN THE MISCELLANEOUS CHEMICAL PRODUCTS INDUSTRY - 1940Name of FirmLocation of PlantPLASTICS AND MOULDED PRODUCTS GROUPQUEBEC -

Bolta Plastics Ltd.	Granby
Canadian Industries Limited	Shawinigan Falls
Canadian Industries Limited	Brownsburg
Canadian Unbreakable Watch Crystal Co.	3575 St. Lawrence Blvd., Montreal
Dominion Comb & Novelty Co.	Warwick
Granby Manufacturing Co.	81 Court St., Granby

ONTARIO -

Austin, Carl, & Co. Ltd.	Weston
Canadian Lapin Products Ltd.	587 Fleet St. W., Toronto
French Ivory Products Ltd.	1475 Queen St. W., Toronto
Pyralart Products Ltd.	30 Duncan St., Toronto
Rideau Specialty Co.	Main St., Smith's Falls
Wilcox Canadian Ltd.	297 Campbell Ave., Toronto

BOILER COMPOUNDS GROUPQUEBEC -

Filmite Company Registered	3451 Colonial Ave., Montreal
Provincial Boiler Compound Mfg. Co.	2531 Boulevard Gouin Est, Montreal

DIRECTORY OF FIRMS INCLUDED IN THE MISCELLANEOUS CHEMICAL PRODUCTS INDUSTRY, 1940
(Continued)

Name of FirmLocation of PlantBOILER COMPOUNDS GROUP (Con.)ONTARIO -

Bird-Archer Co. Ltd.	Second St., Cobourg
Combustion & Feed Water Service Co.	218 Front St. E., Toronto
Dearborn Chemical Co. Ltd.	2454 Dundas St. W., Toronto
Garratt-Callahan Co. Ltd.	717 Richmond St. (rear), London
O'Malley, John & Co.	40 St. Patrick St., St. Catharines
Van Camp Products & Sales Co.	177 Parliament St., Toronto
Wilson, G., & Co.	229 Erie Ave., Brantford

BRITISH COLUMBIA -

Goddard & Co.	Sidney
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SWEEPING COMPOUNDS GROUPQUEBEC -

Inter-City Petroleum Co.	3531 St. Lawrence, Montreal
Montreal Sanitary Products Mfg. Co.	1329 Plessis St., Montreal
Solex Disinfecting Co.	1360 Dorchester St. E., Montreal

ONTARIO -

Dustbane Mfg. Co. Ltd.	Hurdman's Bridge, Ottawa
Fairview Chemical Co.	360 Dufferin St., Toronto
Soclean Limited	444 King St. W., Toronto
Tennier Mfg. Co.	Hamilton Beach

MANITOBA -

Dustbane Western Ltd.	349 Elgin Ave., Winnipeg
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ALBERTA -

Western Supply & Mfg. Co.	1822 .. 10 Ave. West, Calgary
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BRITISH COLUMBIA -

Dustbane Co. of B. C. Ltd.	722 Cambie St., Vancouver
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INSECTICIDES GROUPQUEBEC -

Kennedy Manufacturing Co.	112 McGill St., Montreal
Mysterious Chemical Co. Ltd.	3136 Masson St., Montreal and 5479 .. 3th Avenue, Rosemount
Quik-Kil Chemical Products	22 Carillon St., Hull
Sherwin-Williams Co. of Canada, Ltd.	1957 Hunter St., Montreal
Soden, P. N., & Co. Ltd.	442 Victoria St., Lachine

DIRECTORY OF FIRMS INCLUDED IN THE MISCELLANEOUS CHEMICAL PRODUCTS INDUSTRY, 1940
(Continued)

<u>Name of Firm</u>	<u>Location of Plant</u>
<u>INSECTICIDES GROUP (Con.)</u>	
<u>ONTARIO -</u>	
Bartlett, N. M., Spray Works	Beamsville
Canada Rex Spray Co. Ltd.	Brighton
Common Sense Mfg. Co.	333 Queen St. W., Toronto
Howard Chemical Co.	220 Humbercrest Blvd., Toronto
King Calcium Products	Campbellville
Niagara Brand Spray Co. Ltd.	Burlington
White, Howard R.	270 William St., London
<u>MANITOBA -</u>	
Michelson Chemical Co.	352 Cumberland Ave., Winnipeg
Riess, Charles, & Company	372 Colony St., Winnipeg
<u>SASKATCHEWAN -</u>	
Chemical Products Co. Ltd.	1326 Atkinson St., Regina
Erickson's Gopher Bait Co.	Fort Qu'Appelle
Fairview Chemical Co. Ltd.	1355 St. John St., Regina
<u>ALBERTA -</u>	
Canada West Products Co.	1845 .. 10th Ave. West, Calgary
Dunlap Manufacturing Co. Ltd.	Stettler
<u>BRITISH COLUMBIA -</u>	
Chemical Products (Can.) Ltd.	422 Railway St., Vancouver
Oliver Chemical Co. Ltd.	Penticton
Wenatchee Rex Spray Co.	346 W. 5th St., Vancouver

MATCHES GROUP

<u>QUEBEC -</u>	
Canada Match Co. Ltd.	Tracy St., Hull
Commonwealth Match Co. Ltd.	201 St. Louis St., St. Johns
Eddy Match Co. Ltd.	Berthierville
L'Allumiere Federale Ltee	Hull
<u>ONTARIO</u>	
Book Match Manufacturers Ltd.	1244 Dufferin St., Toronto
Eddy Match Co. Ltd.	Water St., Pembroke
Strike-Rite Matches Ltd.	306 Talbot St., London

DISINFECTANTS GROUP

<u>QUEBEC -</u>	
Pearson's Antiseptic Co. of Canada, Ltd.	45 Ann St., Montreal
West Disinfecting Co.	5621 Casgrain St., Montreal

DIRECTORY OF FIRMS INCLUDED IN THE MISCELLANEOUS CHEMICAL PRODUCTS INDUSTRY, 1940
(Continued)

Name of FirmLocation of PlantDISINFECTANTS GROUP (Con.)ONTARIO -

Associated Chemical Co. of Canada, Ltd.	14 Darrell Ave., Toronto
Canadian Germicide Co. Ltd.	1 Howard Park Ave., Toronto
Nith Valley Laboratories Ltd.	Wilmot St., New Hamburg
The Canadian Hayner Co.	238 Harbord St., Toronto
Polusterine Products Co. of Canada, Ltd.	168 Ontario St., Toronto

MANITOBA -

City Chemical & Products Co. Ltd.	233 Fort St., Winnipeg
Hamilton & Higham	1120 Edderton Ave., Fort Garry

MISCELLANEOUS CHEMICALS GROUPNOVA SCOTIA -

Marden-Wald of Canada, Ltd.	Rockhead Works, Halifax
Nu-Mac Manufacturing Co. Ltd.	Jubilee Road, Bridgewater

QUEBEC -

A. J. P. Chemical	1948 Blvd. Perras, Montreal
Associated Textiles of Canada Ltd.	Louisville
Blachford, H. L.	977 Aqueduct St., Montreal
Brown Corporation	La Tuque
Canadian Industries Limited	McMasterville
Canadian Plastics Ltd.	1850 St. Antoine St., Montreal
Canadian Safety Fuse Co. Ltd.	Brownsburg
Charters Chemicals Co.	2210 Blake St., Montreal
Chipman Chemicals Ltd.	6508 Durocher St., Montreal
Clough Chemical Co. Ltd.	33 St. Mathieu St., St. Laurent
Defence Industries Ltd.	Brownsburg and McMasterville
Dewey & Almy Chemical Co. of Canada, Ltd.	255 LaFleur Ave., Ville La Salle
Dominion Arsenal	Quebec
Empire Chemical Products, Reg'd.	120 Prince Edward St., Quebec
Holliday, L. E., & Co. of Canada, Ltd.	127 St. Peter St., Montreal
McArthur, Irwin, Ltd.	11 Batec Road, Outremont
Mack Molding Ltd.	Taylor St., Waterloo
Montreal Fireworks Display Mfg. Co.	Ville St. Pierre
Plastic Moulding Sales Co.	1003 Cote St., Montreal
Releasall Company	Ville St. Pierre
Richards Chemical Works, Ltd.	178 St. Peter St., St. Johns

ONTARIO -

American Chemical Paint Co.	Walkerville
Anti-Borax Compound Co.	1244 McDougall St., Windsor
Bekelite Corporation of Canada, Ltd.	163 Dufferin St., Toronto
Bellak Brothers & Simmons Ltd.	1199 Bathurst St., Toronto
Canadian Aniline & Extract Co. Ltd.	250 Elgin St., Hamilton
Canadian Industries Limited	Nobel
Canadian Pep. Mfg. Co. Ltd.	115 George St., Toronto

DIRECTORY OF FIRMS INCLUDED IN THE MISCELLANEOUS CHEMICAL PRODUCTS INDUSTRY, 1940
(Concluded)

Name of FirmLocation of PlantMISCELLANEOUS CHEMICALS GROUP (Con.)ONTARIO (Con.) -

Cataract Chemical Co. of Canada Ltd.	Catherine St., Fort Erie
Cert Seal Mfg. Co.	1264 Queen St. W., Toronto
Champion Co. of Canada Ltd.	856 Millwood Rd., Toronto
Compagnie Parente Ltd.	73 Adelaide W., Toronto
Defence Industries Ltd.	Nobel
Derpo Products	7 Awde St. (rear), Toronto
Diamond State Fibre Co. of Canada Ltd.	356 Eastern Ave., Toronto
Dodge Chemical Co. (Canada) Ltd.	16 Front St. E., Toronto
Dye & Chemical Co. of Canada, Ltd.	Kingston
Eaton-Clark Co.	568 Chatham St. E., Windsor
Hand, T. W., Fireworks Co. Ltd.	Cooksville.
Hercules Powder Co. (Canada) Ltd.	Freeman
Hollingshead, R. M. Co. of Canada, Ltd.	Bowmanville
Johnson-Richardson Ltd.	737 King St. W., Toronto
Latimer Ltd.	90 Niagara St., Toronto
Lawrason, E. F., & Co. Ltd.	Adelaide and Nelson Sts., London
MacCallum Mfg. Co.	2 Primrose Ave., Toronto
Mandaree Ltd.	163 Wickstead St., Toronto
Master Builders Co. Ltd.	71 Browns Ave., Toronto
National Fibre Co. of Canada, Ltd.	107 Atlantic Ave., Toronto
Neilson Chemical Co. of Canada	2682 Tecumseh Rd., Windsor
North American Dye Corp., Ltd.	340 Richmond St. W., Toronto
Novadel-Agene Ltd.	Garrison Road, Fort Erie
Pyrene Mfg. Co. of Canada, Ltd.	91 E. Don Roadway, Toronto
Quaker City Chemical Co. of Canada, Ltd.	Birmingham and Whitfield Sts., Hamilton
Radiator Specialty Co. of Canada, Ltd.	520 King St. W., Toronto
Rohm & Haas Co. of Canada, Ltd.	308 Terminal Warehouse Bldg., Toronto
Richardson Hansen Ltd.	James St., St. Marys
Smith, Howard, Chemicals Ltd.	Cornwall
Smith, Werner G., Ltd.	134 Royce Ave., Toronto
Welco Chemical Co.	9 Boulton Ave., Toronto
Wells & Richardson Co. Ltd.	1019 Elliott St. W., Windsor
"Y" Laboratories	360 Dufferin St., Toronto
Yocum Faust Ltd.	123 St. George St., London

MANITOBA -

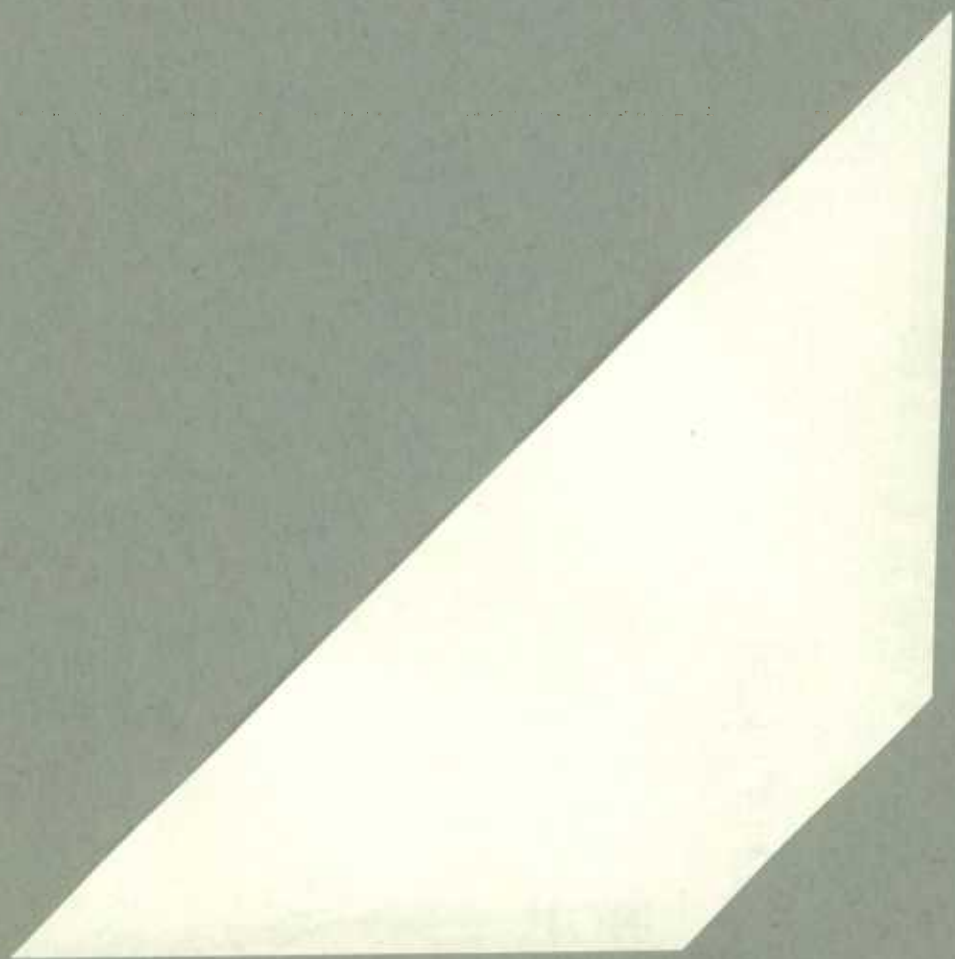
Canadian Industries Limited	East Selkirk
Chipman Chemicals Ltd.	1040 Lynn Ave., Winnipeg
Robinson & Webber Ltd.	52 Gertie St., Winnipeg

ALBERTA -

Chipman Chemicals, Ltd.	12th Ave. and 6th St. E., Calgary
Interprovincial Chemical Co.	10166 Whyte Ave., Edmonton

BRITISH COLUMBIA

Canadian Industries Limited	James Island
Chipman Chemicals Ltd.	12th Ave. and Renfrew St., Vancouver
Western Chemical Industries Ltd.	La Pointe Pier, Vancouver



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