# 43 Photographic chemical materials

This Report on the Photographic Chemical Materials relates to establishments engaged wholly or mainly in manufacturing sensitized photographic film and plate and photographic processing chemicals. Unsensitized photographic film is excluded.

This industry corresponds to minimum list heading 279(7) in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry was included partly in the Scientific, Surgical and Photographic Instruments Industry (Part 53) and partly in the General Chemicals Industry (Part 27) in the Reports on the last detailed Census of Production for 1963.

Throughout this Report, the figures given for 1963 have been reclassified as far as possible according to the Standard Industrial Classification (Revised 1968) so that the data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only, has been arbitrary.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions <u>less</u> disposals.

ABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

						Unit	All establishments		
					-72	Unit	196	3	1968
mber of enterprises	no sali	and the	Lected	23823893	79/26	No.		28	14
mber of establishments						II		40	24
oss output						£.000	55,5	22	80,095
t output						н	27,3	08	32,286
et output per head						£	1,5	57	2,109
	1	goods produce	d and work	done (c)		£.000	49,9	39	73,114
les and work done	1	merchanted go	ods and ca	nteen taking	gs	н	5,5	37	5,888
	181/3	materials for packaging and		oduction and	d	"	23,6	54	43,447
rchases	358/1	goods for mer purchases	chanting a	nd canteen		ır	4,4	37	4,169
	919,81	for work done	on materi	als given ou	ıt	11	5	27	389
		for transport					754		
Payments to other organisations		by road				n			70
		by rail and postal serv		ns excluding	3	11		09 {	41
ocks and work in progre	ss								
Total stocks and work in	n ∫	change during	year			"	+ 6	08	+ 1,400
progress	1	at end of year				"	13,9	80	17,610
0 1 1 1 for only	ſ	change during	year			n	- 2	<b>7</b> 5	+ 354
Goods on hand for sale	1	at end of year			11	3,0	20	2,939	
	٢	change during	year		na jak bi	п	+ 3	21	+ 738
Work in progress	1	at end of year			н	3,9	95	6,230	
	-	change during	year			11	+ 5	63	+ 308
Materials, stores and f	uel {	at end of yea				"	6,9		8,441
	(	total, includ	ling workir	g proprieto	rs	Th.	17		15.3
umber employed on averag	e	operatives	ing worm	B Property		"	10		9.0
uring the year		other employe	ees (d)			ti		.8	6.3
	(	of operatives				£,000	8,3		9,558
ages and salaries	{	of other empl				2 000	6,6		8,066
mital amanditum (a)	(	or other dupi	oyees (u)				0,0	00	0,000
apital expenditure (e) Total						n =	0.0	E4	E 996
			84			п	2,9		5,338
New building work	lings (f	8000				ri a		44	1,471
Land and existing build		608				. 31	No. of the last	05	- 45
Plant and machinery (f)	20.00					11	2,0		3,676
Vehicles (f)		911.1	418, B 1	7,292	588.0	M. M	1	62	237

(a) For 1968 estimates for small establishments from which only employment data were collected accounted for less than 1 per cent. of the total figures in which they were incorporated. There were no unsatisfactory returns recorded. For 1963 estimates for small establishments and unsatisfactory returns accounted for 2 per cent: of this unsatisfactory returns accounted for 1 per cent.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns in 1963 only.

	1963	1968
Number of establishments	15	6
Average number employed:		
Working proprietors	11	3
Other persons employed	102	59

Footnotes continued on page 43/2.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab- lish- ments	Enter- prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
	Number	Number	Number	£'000	£'000	£
1-5	3	3	11			
6-24	3	3	51	shew 7.50 to	pode brode	
25-99	4	3	253	1,701	806	3,185
100-299	5	5	1,038	7,476	3,302	3,181
300-999	4	4	2,120	10,747	4,148	1,956
1,000 and over	5	3	11,837	59,846	23,900	2,019
Total	24	14	15,310	80,095(c)	32,286(c)	2,109(c)

#### (ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Empl	Employees		d salaries	Wages and salaries per head		
year by the establishment (a)	Oper- atives	Others (d)	Oper- atives	Others (d)	Oper- atives	Others (d)	
5.8	Number	Number	£,000	£'000	£	£	
1-5	00013				i Janago To		
6-24					n isulo na		
25-99	213	40	166	49	780	1,226	
100-299	737	301	728	361	988	1,198	
300-999	1,390	730	1,235	812	888	1,112	
1,000 and over	6,604	5,233	7,392	6,814	1,119	1,302	
Total	8,979(c)	6,328(c)	9,558(c)	8,066(c)	1,065(c)	1,275(c)	

<sup>(</sup>a) Including working proprietors.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	1	3	4
18 and over	59	37	96
All ages	60	40	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the chemical industries not elsewhere specified - minimum list heading 279 - at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).

<sup>(</sup>b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

<sup>(</sup>c) Including estimates for establishments employing fewer than 25 persons.

<sup>(</sup>d) Administrative, technical and clerical employees.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

		Unit	1963	1968
Number of enterprises	Transport of the second of the	No.	12	9
Number of establishments		"	24	18
Gross output		£'000	54,569	79,770
Net output		п	26,839	32,155
Net output per head		£	1,557	2,109
Sales and work done	goods produced and work done (b)	£,000	49,082	72,818
bares and work done	merchanted goods and canteen takings	"	5,442	5,864
Index of specialisation (c)		Per cent.	91	99
	materials for processing and packaging, and fuel	£'000	23,248	43,271
Purchases	goods for merchanting and canteen	2 000	20,240	45,271
	purchases	"	4,410	4, 152
	for work done on materials given out	"	518	387
Payments to other	for transport			
organisations	by road	н		70
	by rail and other means excluding postal services	"	107	41
Stocks and work in progress	C postar services			41
are and were in progress	change during year	"	_ 071	+ 252
Goods on hand for sale	at end of year	11	- 271	353
			2,968	2,927
Work in progress	change during year	н	+ 315	+ 735
	Lat end of year	n e	3,926	6,205
Materials, stores	change during year	п	+ 553	+ 306
and fuel	at end of year	n	6,846	8,407
	(total, including working proprietors	No.	17,238	15,248
Number employed on average during the year	operatives	п	10,514	8,944
average during the year	other employees (d)	n	6,720	6,304
	of operatives	£,000		
Wages and salaries	of other employees (d)	1 2 000	8,234	9,521
			6,526	8,035
Wages and salaries per head	operatives	£	783	1,065
	(other employees (d)	п	971	1,275
Capital expenditure (e)				
New building work		£'000	632	1,465
Land and existing buildings	acquisitions	"	178	24
	disposals	"	75	69
Dlant and machine	facquisitions ·	н	2,030	3,874
Plant and machinery	disposals	н	21	213
	(acquisitions	"	250	402
Vehicles	disposals	"	91	167
			91	107

For notes to this table - see page 43/7.

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	19	63		1968		
	Quantity	Value	Quantity	Value	Enter- prises	Entries
04, 800,0004		£,000		£,000	Number	Number
Photographic developers and other compounded preparations for photographic purposes	100/2	3,667	70010	7,344	11	11
Sensitized photographic plates and films other than photographic paper and cloth (not exposed nor developed)		24,225		41,221	9	11
Photographic paper and cloth (not exposed nor developed)	Targes less				15   5 mg/s	ovali 10 dayal 100
Paper sensitized with silver salts		1881				n.7 km
Document-copying paper {	Th.sq.ft.	1,862 611	Th. sq. ft. 219,465	3,342 822	} *	*
Other paper sensitized with silver salts	186,089	4,124	289,390	8,529	*	*
Other sensitized paper (including dyeline) and sensitized cloth	1,049,275	7,112 793	1,380,327	10,912 4,895	} 9	11
Other products		85		123	*	*
Waste products		628		545	*	*
Work done		2,990		481	*	*
Total	of ad also	46,096		78,214		AULE. 2
Sales in other industries (see Table 6)	TRUMENTO SECTIONAL	1,506	L MARTINE	6,079	MARIE.	
Principal products of this industry sold by establishments in the industry		44,590		72,135	9	15(a)

<sup>(</sup>a) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

#### Footnotes to Table 4.

- (a) For 1963 two establishments employing fewer than 25 persons were included in returns for larger establishments. None were included for 1968.
- (b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (c) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.

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TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963	3 1968				
	Value	Value	Entries	Principal industries in which produced (a)		
	£,000	£'000	Number	An has the ext		
Photographic developers and other compounded preparations for photographic purposes	1,373	4,481	6	27,29,30,70		
Sensitized photographic plates, films, paper and cloth (not exposed nor developed) excluding document copying paper sensitized with silver salts	133(b)	1,598	7	34,68,70,149		
	100( )	1,000	83 71.00			
Total	1,506	6,079				

<sup>(</sup>a) The references given are to the list of industries at the front of this report.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963	1968
	Value	Value
The real entire that the control of	£,000	£'000
Miscellaneous products and services rendered to other organisations (a)	4,493	683
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	5,171	5,513
Canteen takings	271	351
Total	9,935	6,548

<sup>(</sup>a) Services rendered to other organisations comprises amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

Production of certain principal products of the industry by larger establishments, 1963 and 1968 TABLE 8

This table is not applicable to this industry.

Purchases by larger establishments of selected principal products of the industry, 1968 TABLE 9

This table is not applicable to this industry.

<sup>(</sup>b) For 1963 also excluding paper, other than document copying paper, sensitized with silver salts.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	19	963	196	68
	Quantity	Cost	Quantity	Cost
Materials for use in production		£,000		£,000
Gelatine	)			432
Osseine	}	(a)		556
Synthetic organic pigment dyestuffs, pure or reduced (including pigment dyestuffs, lakes and toners)		(a)		253
Photographic developers and other products compounded or put up for photographic purposes (such as developers, fixers, intensifiers, reducers, toners, clearing agents and emulsions)				295
General chemicals (excluding pesticide chemicals and chemicals used for photographic purposes)	t ve asear	0729 Baro 0.1p m.se	MAT COLUMN	
Inorganic chemicals (including inorganic gases)				
Ammonium compounds		A. L. Philippine		85
Potassium compounds		2 401		88
Silver compounds		3,491		11,490
Sodium compounds (excluding sodium hypochlorite)				170
Other inorganic chemicals and gases				692
Organic chemicals (including organic gases)				
Alcohols				163
Cellulose derivatives				80
Other organic chemicals and gases				1,785
Cellulose ester and ether sheet, film, foil, rod, tube, profile shapes and photographic film base (b)		5,662		8,959
Paper and board, other than for packaging			marija je divija je di	
Photographic paper (not sensitized) including baryta coated		3,492	48 	6,094
Other		(a)		946
	Th.gal.		Th.gal.	
Lubricating oils and greases	2.8	2	2.6	3
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	1 4 6.09		13	
Tyres and other spare parts for firms' own road goods vehicles	}	227		56
Other		l		434
All other materials for use in production		7,585		5,050
Packaging materials	eromet, o	Terr conducts		
Paper and board				
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard, and fibreboard packing cases		757		1,214
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)				336
Other packaging materials of paper and paperboard (including bags and multiwall paper sacks, moulded pulp units and labels but excluding paper and board for converting into packaging materials)	}	647(c)		573

TABLE 10 (continued)

	19	963	19	68
	Quantity	Cost	Quantity	Cost
Packaging materials (continued)		£,000		£'000
Metal				
Cans and boxes		17		412
Aluminium collapsible tubes, aluminium foil, and any laminates incorporating aluminium foil and aluminium foil labels and closures		1	nwig silan	38
Timber		7	n rash deta	52
Plastics (other than transparent regenerated cellulose film)	Brody Bros			
Film (up to 0.01 inches thick) of polyethylene and other plastics materials	1480,300	(a)	18000 01	33
Bags and sacks, sheets and sheeting (thicker than 0.01 inches)	2000000	(a)		93
Moulded and fabricated containers including closures and inserts		40		14
All other packaging materials		579	wooder (a	1,592
Tuel and electricity (d)	Th. tons		200,000	
Coke (including screenings) and manufactured fuel	0.5	4	dada — a	radional –
	Th.gal.		Th.gal.	
Derv fuel and motor spirit for use in road vehicles	359	81		202
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	9,411	348	14,134	574
etc and fiqueffed perforeum gases)	Th. therms	340	Th. therms	31.
Cas	465	39 12	367	3 42
	Th.kWh		Th.kWh	
Electricity	37,536	256 {	31,507	218 97
Total cost of materials and fuel		23,248		43,27
Goods purchased for merchanting		4,231		3,87
Canteen purchases		180	s spor puriting	278
Total cost of purchases		27,659		47,42

<sup>(</sup>a) Not recorded separately for 1963.

<sup>(</sup>b) For 1963 described as 'Photographic and cinematographic film base (not sensitized)'.

<sup>(</sup>c) For 1963 excluding multiwall paper sacks.

<sup>(</sup>d) Owing to the risk of disclosure of information relating to individual firms, total quantities of electricity generated in firms' own establishments in 1963 and 1968 cannot be given.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Unit	1963	1968
Average number mainly employed on transport	No.	300	266
Transport costs	-	MATERIA POLICI	
Wages and salaries	£'000	296	289
Derv fuel and motor spirit	n	81	202
Tyres and other spare parts for road goods vehicles	п	92900gov 19	56
Payments to other organisations for transport by rail and other means excluding postal services	11	107 {	70
Costs of operating road goods vehicles			
Insurance	"	18	24
Vehicle licences	u u	18	39
Depreciation	"	89	249
Payments to other organisations for repairs and maintenance	n n	31	71
Total	ı	639(a)	1,041

<sup>(</sup>a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Amounts	Amounts payable		
The devolution of the segretary and categorithms.	1963	1968		
Repairs and maintenance to	£'000	£'000		
Buildings	91	94		
Road goods vehicles	31	71		
Plant, machinery and other capital equipment	152	264		
Insurance, licensing and depreciation of road goods vehicles (b)	125	312		
Rates, excluding water rates	370	513		
dire of plant and machinery	12	19		
Postage, telephone, telegrams, cables and telex (c)	387	213		
Total	1,169	1,487		

<sup>(</sup>a) No deduction is made for these payments to arrive at the figures of net output given in this report.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed	
1968	Per cent.	Per cent.	
April (a)	0.0	0.0	
May	0.0	0.0	
June	13.3	1.9	
July	0.0	0.0	
August	0.0	0.0	
September	0.0	0.0	
October	26.7	35.6	
November	6.7	35.2	
December	33.3	19.4	
1969			
January	0.0	0.0	
February	0.0	0.0	
March	20.0	7.9	
April (b)	0.0	0.0	
	100	100	

<sup>(</sup>a) From 6 April.

<sup>(</sup>b) For details see Table 11.

<sup>(</sup>c) Excluding telex for 1963.

<sup>(</sup>b) To 5 April.

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