29 General chemicals (other than inorganic and organic)

This Report on the General Chemicals (other than inorganic and organic) Industry relates to establishments engaged wholly or mainly in manufacturing chemical mixtures, excluding chemical compounds containing impurities, or to which water, solvents or stabilisers have been added solely for reasons of safety, transport or preservation. Certain organic or inorganic compounds used mainly for specific end-uses (such as hydrosulphites, hypochlorites, simple phosphate or phthalate plasticiser chemicals), nuclear fuels, and radio-active elements, compounds and isotopes are included. Pharmaceutical chemicals and preparations, dyestuffs and pesticides are excluded.

This industry corresponds to minimum list heading 271(3) 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 in the General Chemicals Industry (Part 27) in the reports on the last detailed Census of Production for 1963: together with the reports on General Chemicals (Organic) (Part 28) and General Chemicals (Inorganic) (Part 27) it broadly corresponds with the 1963 report on the General Chemical Industry except that creosote/pitch mixtures for use as fuel are contained in the 1968 report on Coke Ovens and Manufactured Fuel (Part 24); pharmaceutical chemicals in Pharmaceutical Chemicals and Preparations (Part 30); higher fatty alcohols in Soap and Detergents (Part 33); silicones and synthetic rubber in Synthetic Resins and Plastics Materials and Synthetic Rubber (Part 34); pigments in Dyestuffs and Pigments (Part 35); ammonium nitrate and ammonium phosphates in Fertilisers (Part 36); cellulose nitrate in Explosives, Fireworks and Matches (Part 39); and photographic developers and other compounded preparations for photographic purposes in Photographic Chemical Materials (Part 43). Compound oils (perfumery bases) were included in the 1963 report on the Toilet Preparations Industry (Part 29) but are now included in this industry.

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 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. Comparability of figures between 1963 and 1968 is further affected in this industry and elsewhere in the Chemical Order by differences in the reporting units of large firms engaged in distinct processes of chemical and chemical products manufacture.

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).

LIST OF TABLES

Table	tes to establishments engaged wholly or mainly to monofacturing chemics	a fea
No.	Title	Page
0.11.004	SECTION I - Estimates for all establishments in the industry	or p
1	Industry summary, 1963 and 1968	29/3
2	Analysis by size of establishment within the industry, 1968	29/4
3	Percentage analysis of employees, by age and sex, 1969	29/5
	SECTION II - Analysis of returns received	
4	Analysis of larger establishments, 1963 and 1968	29/6
5	Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968	29/7
6	Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968	29/10
7	Sales of other than principal products by larger establishments in the industry, 1963 and 1968	29/11
8	Production of certain principal products of the industry by larger establishments, 1963 and 1968	DOES NOT APPLY
9	Purchases by larger establishments of selected principal products of the industry, 1968	29/12
10	Purchases by larger establishments in the industry, 1963 and 1968	29/13
11	Transport costs and employment of larger establishments, 1963 and 1968	29/16
12	Payments for certain services, etc by larger establishments, 1963 and 1968	29/17
13	Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968	29/17

Footnotes continued from page 29/3.

- (d) 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).
- (e) Administrative, technical and clerical employees.
- (f) Excluding expenditure for establishments not yet in production.
- (g) Acquisitions less disposals.

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

1000				All establishments		
			Unit	1963	1968	
umber of enterprises	end tag	com 19 (seepage output cutput	No.	278	299	
umbe'r of establishments			ii ii	328	357	
ross output			£'000	182,061	278,802	
et output			н	90,882	120,554	
et output per head			£	2,788	3,785	
		goods produced and work done (d)	£'000	160,725	235,980	
ales and work done		merchanted goods and canteen takings	п	21,619	32,731	
et amount receivable in	respect	of Customs and Excise duty	n.	1,299	666	
		materials for use in production and packaging and fuel	п	72,005	138,912	
urchases		goods for merchanting and canteen purchases	n S	18,716	27,160	
		for work done on materials given out	п	249	1,505	
Payments to other organisations		for transport by road	п	1 (3,026	
inganisat tons		by rail and other means excluding postal services	п	$\left \right\} 2,223 \left\{$	544	
Stocks and work in progr	ess		a lanca lanca ann		CONTRACTOR	
Total stocks and work in progress		change during year	"	+ 433	+ 22,323	
		at end of year	"	23,097	83,919	
Goods on hand for sale Work in progress		change during year	n n	- 154	+ 3,968	
		at end of year	H S S S S S S S S S S S S S S S S S S S	9,605	19,703	
		change during year	"	- 128	+ 6,123	
		at end of year	"	2,657	28,899	
		change during year	п	+ 714	+ 12,231	
Materials, stores and	fuel	at end of year	ıı	10,836	35,317	
		f total, including working proprietors	Th.	32.6	31.8	
Number employed on avera during the year	ge	operatives	"	19.7	18.4	
un mg the year		other employees (e)	n, see	12.7	13.3	
		f of operatives	£'000	15,082	19,905	
Wages and salaries		of other employees (e)	п	14,784	20,88	
Capital expenditure (f)		to the second se	14 101 100	Allenda dan 188		
Total		900,1 700,10 This to 119 rath of	п	11,939	18,42	
New building work			п	2,940	1,50	
			n	163	- 4	
Land and existing buil			n	8,439	16,32	
Plant and machinery (g	688.1	280,1 720,1 1.925 1,005	'n	396	64	
Vehicles (g)	25, 148	88 088 8 Esq. fo de decident	100000			

(a) The 1963 and 1968 figures in this table are not strictly comparable - see paragraph 4 of the introduction to this report.

(b) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 8 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 2 per cent. For 1963 the comparable figures were 6 per cent. and less than 1 per cent. respectively.

(c) 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.

imate for small establishments in	of making baribiacros.	
	1963	1968
Number of establishments	204	234
Average number employed:		
Working proprietors	219	177
Other persons employed	1,788	2,063

Footnotes continued on page 29/2.

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
508, 1555 pp. [579, 200]	Number	Number	Number	£'000	£'000	£
1-5	83	79	259			
6-10	58	58	433			
11-24	88	79	1,504	Steele Link Se	andrews about	
25-49	33	33	1,165	10,241	3,478	2,985
50-99	27	25	1,787	13,480	5,876	3,288
100-199	26	21	3,395	36,711	13,462	3,965
200-299	8	7	1,994	24,769	8,842	4,434
300-399	6	6	1,989	19,776	5,911	2,972
400-499	3	3	1,337	11,200	4,318	3,230
500-749	5	4	3,142	18,292	10,603	3,375
750-999	4	4	3,169	32,181	10,383	3,276
1,000 and over	5	3	11,209	89,024	47,753	4,261
Unsatisfactory returns	11	11	465	tion in trades	bary vel	
Total	357	299	31,848	278,802(c)	120,554(c)	3,785(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Emplo	yees	Wages and	salaries	Wages and salaries per head		
year by the establishment (a)	Oper- atives	Others (d)	Oper- atives	Others (d)	Oper- atives	Others (d)	
6.81 7.31	Number	Number	£'000	£'000	£	£	
1-5	100.00						
6-10						••	
11-24	1) 899 COT CITTLE	reaso to J	••	
25-49	701	448	624	625	890	1,395	
50-99	961	822	970	1,037	1,009	1,261	
100-199	1,812	1,583	1,640	2,181	905	1,378	
200-299	1,201	793	1,355	1,016	1,129	1,281	
300-399	1,120	869	1,159	1,071	1,035	1,233	
400-499	678	659	722	1,027	1,065	1,559	
500-749	1,613	1,529	1,543	3,280	956	2,146	
750-999	1,670	1,499	1,854	2,038	1,110	1,359	
1,000 and over	7,204	4,004	8,493	6,964	1,179	1,739	
Unsatisfactory returns	is not has	ory, return	Cabaj iya go	ildaa ka a	losada: do A	etel for e	
Total	18,391(c)	13,260(c)	19,905(c)	20,887(c)	1,082(c)	1,575(c)	

(a) Including working proprietors.

(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.

(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(d) Administrative, technical and clerical employees.

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

All establishments: United Kingdom

Ages	Males	Fem ales	All employees
1,	Per cent.	Per cent.	Per cent.
Under 18	1	1	2
18 and over	82	16	98
All ages	83	17	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

Footnotes to Table 4.

- (a) The 1963 and 1968 figures in this table are not strictly comparable see paragraph 4 of the introduction to this report.
- (b) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 10 establishments in 1968 and 19 in 1963.
- (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) Direct sales of goods (excluding canteen takings) made to and work done for, the general public by larger establishments are included. These amounted to £35,000 in 1968. Similar information is not available for 1963.
- (e) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (f) Customs and Excise duty paid on goods of firms own manufacture where these were sold duty paid was £47,000 in 1963 and £70,000 in 1968. The value of rebates in respect of alcohol used in the manufacture of medicinal preparation and of drawbacks reduced in respect of products exported was £1,271,000 in 1963 and £683,000 in 1968.
- (g) Administrative, technical and clerical employees.
- (h) Excluding expenditure for establishments not yet in production.

TABLE 4 Analysis of larger establishments, 1963 and 1968 Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a) (b)

SONTON AND A SAME AS A SECOND	Co (F.C. 1974)	Unit	1963	1968
Number of enterprises	ne mand to find the County of State	No.	97	88
Number of establishments		ıı	141	127
Gross output		£'000	171,569	256,444
Net output		"	85,644	110,886
Net output per head		£	2,788	3,785
C. L. and L. M.	goods produced and work done (c) (d)	£'000	151,462	217,056
Sales and work done	merchanted goods and canteen takings	"	20,373	30,106
Index of specialisation (e)	21 31,305 36,711 13,461	Per cent.	72	79
Net amount receivable in respect	of Customs and Excise duty (f)	£'000	1,224	613
	f materials for use in production and packaging, and fuel	, ,	67,855	127,772
Purchases	goods for merchanting and canteen	3.	76	
	purchases	"	17,637	24,982
	for work done on materials given out	п	235	1,384
Payments to other	for transport		2	0 ===
organisations	by road	"	2,095	2,783
	by rail and other means excluding postal services	п]	500
Stocks and work in progress				
Goods on hand t	change during year	п	- 145	+ 3,650
Goods on hand for sale	at end of year	п	9,051	18,123
Work in progress	change during year	н	- 121	+ 5,632
Work in progress	at end of year	п	2,504	26,581
Materials, stores	change during year	п	+ 673	+ 11,251
and fuel	at end of year	п	10,211	32,485
	total including working proprietors	No.	30,710	29,294
Number employed on average during the year	operatives	. "	18,655	17,010
or some Castract mending suffer during matric by leases eated in	other employees (g)	п	12,039	12,264
Wages and salaries	of operatives	£'000	14,303	18,410
nages and salaries	of other employees (g)	ıı	14,025	19,319
Wages and salaries	operatives	£	767	1,082
per head	other employees (g)	п	1,165	1,575
Capital expenditure (h)	. Spor alesse, or Balesper 1,071 1,03		:33	
New building work	adshib to him natiminate 1,027 1 1,000	£'000	2,771	1,382
Land and existing	f acquisitions	11	198	76
buildings	disposals	n	44	115
Plant and machine	acquisitions	п	7,976	15,117
Plant and machinery	disposals		23	105
Vehicles	acquisitions	n	546	852
Control of the Street of	disposals	n ·	173	260

For notes to this table - see page 29/5.

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

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

1000 Thitean Finon Market Wast	19	63	in and term	1968		Dission.
tions, limited on chemical a specifically	Quantity	Value	Quantity	Value	Enter- prises	Entries
Radioactive and isotopically labelled elements and compounds (inorganic)		£,000	lod and to	£'000	Number	Number
Artificially enriched	3-00	1,057	the ale to	2,265	**	*
Other		226		22	a hora an	*
Radioactive and isotopically labelled compounds artifically enriched (organic) (b)	1.00	374	der , signific	1,013	y sigdy	19 *
Additives for liquid fuels and lubricating oils	Th.tons		Th.tons		of DATORS	109
Antiknock compounds			76.3	20,765	* (2	*
Lubricating oil additives	119	26,211	117	19,410	15	20
Other (eg oxidation inhibitors for gasolines, metal deactivators)		48.503	8.2	1,711	13	14
Anti-freeze mixtures for internal combustion engines (including inhibited grades of ethanediol (ethylene glycol) but excluding pure ethanediol)	17.2	2,228 838	21.5	2,183 704	} 29	31
Bleaching materials (excluding hydrogen peroxide) (c)	ot derbot	at space 15 to	1		al glis:	rankopi Flatna
Hydrosulphites (dithionites) and re- lated compounds, organic and inorganic	12.2	1,835 953	3 16.0	2,954	6	6
Hypochlorites]	T		5,357	11	12
Other bleaching materials (including bleaching powder (chloride of lime) peroxides, peroxy salts and compounded bleaching agents, but excluding sulphites and fluorescent brightening agents)	246	9,724	89.5	6,904	*	7
Catalysts, prepared for industrial processes (other than activators for catalysts)	778	4,430	ands ratito	12,325	19	22
Ceramic colours, glazes and vitreous enamel frits			di stanognos	Butanoant	Die	about
Ceramic colours			ottent	ngs ,sinon	000 610	10
For glass and clayware	0.9	876	egarq bee	2,068	3 8 8 7 3	10
For vitreous enamels	0.2	207	0.3	341	5	5
Ceramic glazes for clayware	15.4	1,105 {	17.3	1,333 1,146	10	14
Vitreous enamel frits		HALL STATE		400		Faction
For dry process cast iron	6.7	687	4.0	420	1800	19030
For wet process cast iron	4.8	432	3.3	330	6	6
For sheet steel and other metals	12.4	1,271	13.7	1,540	8	8
Chemical products and preparations for fire extinguishing	7,2	156	secons, and the color	1,467	6	8
Chemical products and preparations for metals (including pickling preparations, fluxes and auxiliary preparations for soldering, brazing and welding (including powders and pastes consisting of metal and other materials; core and coating	8.8	; el	and chemica ces, combine active	eyathetia) ag ies (eg sis ies enrisee) stasys innst ni reilizue brioxe t	Tanning for use Textile a Textile of the textile of
preparations for welding rods and elect- rodes) and heat treatment salts) (d)		1,933		12,095	22	30

Continued on next page.

TABLE 5 (continued)

Chemical products and preparations mainly for polyvinyl chloride processing (e) Plasticisers, mixed or unmixed Phthalates of alcohols of one to five carbon atoms Phthalates of alcohols of six carbon atoms and above	Quantity Th.tons 66.6	Value £'000	Quantity Th.tons	Value £'000	Enter- prises Number	Entries Number
for polyvinyl chloride processing (e) Plasticisers, mixed or unmixed Phthalates of alcohols of one to five carbon atoms Phthalates of alcohols of six carbon	66.6	60	Th.tons	£'000	Number	Number
Phthalates of alcohols of one to five carbon atoms Phthalates of alcohols of six carbon		10,260	ly tubelled organic)	Immigolicari	143	The second second
carbon atoms Phthalates of alcohols of six carbon		10,260	ty tobelled companie)	Prophy Close /	-	
		10,200		1,805	7	9
atoms and above	20.1	Ĺ	86.8	13,115	10	12
Phosphate plasticisers		3,712	23.7	4,624	5	6
Plasticiser esters of adipic, sebacic, azelaic and mixed acids	1		er build	1,963	5	5
Polymeric plasticisers	1.000		0.8	411	*	*
Epoxydised oils			1.9	464	*	*
Epoxydised esters	> 12.6	3,009	4.0	842	*	*
Other plasticisers (excluding acrylates and maleates)	niaciónas reg	uri suorem	1.1	436	(1)	*
Unclassified plasticisers except phthalates of alcohols and phosphate plasticisers		are areas	bolididai	401	10 00 00 001 1*0	N-13mA corte*d
Chemicals put up or prepared for labor- atory use (other than radioactive and isotopically labelled chemicals)		2,416	orbyl seib	7,125	13	14
Finings and other preparations for the brewery and similar trades (excluding isinglass)	5.21	446	tes) and re med inoxes	146	tidgles	Hydrod * Latest
Food and perfume materials	Th.cwt.		Th.cwt.		successor in	havil 18
Compound oils (perfumery bases) sold as such	53.6	6,093	68.8	8,652	14	16
Confectioners' colours and other dyes for foods etc	water.	487	atiding t brighten	581	9	10
Essential oils (natural, other than turpentine)	Th. lb. 977	1,022 1,068	}	1,833	8	10
Essences and flavouring compounds for foods etc	1 1000 Co.	6,145	augosti v bi	8,240	33	42
Perfumery chemicals, synthetic	· · · ·	2,851		7,284	11	17
Rubber processing chemicals and preparations (excluding fillers and carbon black)	Th.tons		Th.tons		e essa a	
Rubber accelerators	11.9	4,886	16.3	6,477	7	8
Rubber antioxidants	9.2	4,859	14.1	7,370	22/2*20	5
Factice	h			279	*	7317*
Other rubber processing chemicals and preparations (eg anti-scorching, soft-ening agents)	8.2	1,753	14.3	2,991	13	14
Surface active materials (other than washing and scouring preparations) including wetting and emulsifying agents, and sulphonated or sulphated oils, alcohols and hydrocarbons	97.2	11,838 {	127	18,220 3,040	} 69	77
Tanning agents (synthetic) and chemicals for use in tanning	35.3	2,287	26.2	1,681	8	8
Textile auxiliaries (eg sizes, combing pils, but excluding surface active materials)	30.3	4,610	tos lo sar thos bis	5,071	21	26

TABLE 5 (continued)

Establishments supleying D	19	963	gaivolque	1968		
	Quant ity	Value	Quant ity	Value	Enter- prises	Entries
Water treatment chemicals and prepara-	Carlotte and the State of the S	£'000		£'000	Number	Number
tions, (including chemicals specifically put up for this purpose) (f)	10121	1,758		3,398	19	20
Mixtures of organic and inorganic chemicals and chemical products	 	43,510	-itdei bas	17,576	54	58
Other products	J			29,402	21	24
Waste products		237		714	13	14
Work done	3,235 4	634	and areas	1,294	20	22
Total	200 27	168,424	gark	251,791	130.00	aid. Mid
Sales in other industries (see Table 6)	200 I	59,833	nierale.	81,144	egeng egenge e	ayialeO Decoroses Decoroses Outbiles
Principal products of this industry sold by establishments in the industry		108,591	endions ing pre-	170,647	86	108(g)

- (a) The 1963 and 1968 figures in this table are not strictly comparable see paragraph 4 of the introduction to this report.
- (b) Not specifically described as artificially enriched for 1963.
- (c) Hydrogen peroxide is included in the report on the General Chemicals (Inorganic) Industry (Part 27).
- (d) For 1963 includes 'fluxes for metals, etc, and heat treatment salts' only.
- (e) For 1963 described as 'Plasticisers, not elsewhere specified'.
- (f) For 1963 described as 'Water treatment compounds (including boiler compositions, etc)'.
- (g) This figure represents the total number of returns made by 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.

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

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

	19	963			1968	
20 September 2 Sep	Quant ity	Value	Quantity	Value	Entries	Principal industries in which produced (b)
Additives for liquid fuels and lubri- cating oils	Th.tons	£'000	Th.tons	£'000	Number	a the experie
Lubricating oil additives Other (eg oxidation inhibitors for			59.3	9,808	12	27,28,34
gasolines, metal deactivators (but excluding anti-knock compounds))	18.6	3,235 {	6.7	1,281	8	27,28,30
Bleaching materials (excluding hydrogen peroxide)	gi, ab	10,430		6,535	12	27,28,35,40
Catalysts, prepared for industrial processes (other than activators for catalysts)	za.uh	1,963	300	5,137	16	27,28,36,93
Chemical products and preparations for metals (including pickling pre- parations, fluxes and auxiliary pre- parations for soldering, brazing and welding (including powders and pastes consisting of metal and other	88.805 88.805 98.605 98.605 98.605 98.605 98.605 98.605 98.605	Abia ana a	int alds	de la	blow yate ladf ni ladf ni 1888 bes	State of the
materials; core and coating prepara- tions for welding rods and electrodes) and heat treatment salts)	hed stor 1)	1,900	orlini e	6,185	20	27,32,49,93
Chemical products and preparations mainly for polyvinyl chloride processing	a lawar ann	de post	delegant	timen Cinni	esphiles	(e) for 1963 (b)
Plasticisers, mixed and unmixed	5 1 DE 1 DE 1 DE 1 3 1	compositios	triest been	rateW tea	lemor ibed	(f) For 1963
Phthalates of alcohols of six carbon atoms and above	37.8	6,203	44.0	6,832	124 15V	27,28,34
Other plasticisers	01.0	0,200		3,104	16	28,32,34
Food and perfume materials			Th.cwt.	0,101	5,852	20,02,04
Compound oils (perfumery bases) sold as such		ſ	2.0	255	5	18,30,31
Essences and flavouring compounds for food, etc		2,941	· • • • • • • • • • • • • • • • • • • •	2,283	27	14,18,20,27
Perfumery chemicals, synthetic		L	,000	571	6	18,28
Surface active materials (other than washing and scouring preparations) in-			Th tons		8,240	39 0
cluding wetting and emulsifying agents, and sulphonated or sulphated oils, alcohols and hydrocarbons	69.0	7,474	84.2	10,103 2,163	} 57	(c)
Textile auxiliaries (eg sizes, combing oils, but excluding surface active materials)	100	2,914	4,68%	3,811	18	27,28,34,35
Water treatment chemicals and pre- arations (including chemicals spec- ifically put up for this purpose)			1,050	10.1	7,370	
Ceramic colours, glazes and vitreous enamel frits	h	994	758	1,110	10	27,28,30,34
Rubber processing chemicals and pre- parations (excluding fillers and carbon black)		21,779		554 6,955	17	27,64,93,126
Other products, including mixtures of organic and inorganic chemicals and chemical products			1,808		18,220	28,34,35,144
Total		59,833	2 227	14,458 81,144	86	(c)

⁽a) The 1963 and 1968 figures in this table are not strictly comparable - see paragraph 4 of the introduction to this report.

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

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

	19	63	1968		
	Quantity	Value	Quant i ty	Value	
the active and active the companies of such 181 Extended Roses	do turt	£'000	atri	£'000	
Miscellaneous food products		855	80	440	
Soft drinks and fruit juices		677		989	
General chemicals (inorganic)	bos brati	onda , kabi		18	
Acids	1	1		272	
Copper compounds		color the de	2	275	
Lead compounds	Screen Toy	les lesses		1,006	
a finished parts, wice the surep	}	4,223	Th.tons	100	
Phosphorous and phosphorous compounds		indo letter	1.6	220	
Sodium and sodium compounds			96.7	1,322	
Other inorganic chemicals		l		2,820	
General chemicals (organic)		(8)	9 A 7 F	100	
Acids		200	, e e	1,634	
Esters	and state of the			780	
Halogenated derivatives of hydrocarbons		9,702	4.8	489	
Nitrogen-function organic compounds		58 124 (1.9	412	
Other organic chemicals	J	an haid of		2,904	
Pharmaceutical chemicals and preparations	n tales of	3,326	N 18	1,337	
Products of the paint industry	To the	604		891	
Soap, detergents and glycerine	p ban.pris	1,352	4	2,243	
Synthetic resins and plastic materials		3,533		509	
Dyestuffs and pigments		2,876		3,029	
Formulated pesticides and disinfectants	C) addiso	821		5,40	
Non-ferrous base metals	1	14 500	1	1,83	
Other products, including electricity sold	1	14,508 {		12,37	
Services rendered to other organisations (b)	2 8018	394	0	5,22	
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	Link	19,906		29,61	
Canteen takings	The foliate	467	(hguneli i	49	
Total	o tol nel	63,244	uran boots	76,51	

⁽a) The 1963 and 1968 figures in this table are not strictly comparable - see paragraph 4 of the introduction to this report.

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

This table is not applicable to this industry.

⁽b) The references given are to the list of industries at the front of this report.

⁽c) Production is widely distributed.

⁽b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 9 Purchases by larger establishments of principal products of the industry, 1968 (a)

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

Standard Industrial Classification	10 auts 7 vs / new 0	Total principal products (c
Minimum List Heading	Purchasing industry (b)	Cost
885	TTS septe	£'000
217	Cocoa, chocolate and sugar confectionery	2,971
218	Fruit and vegetable products	3,783
232	Soft drinks	4,715
262	Mineral oil refining	3,946
263	Lubricating oils and greases	2,695
271/1	General chemicals (inorganic)	2,939
271/2	General chemicals (organic)	6,350
271/3	General chemicals (other than inorganic and organic)	11,844
272	Pharmaceutical chemicals and preparations	9,291
273	Toilet preparations	5,947
275	Soap and detergents	10,321
276	Synthetic resins and plastics materials and synthetic rubber	9,997
311	Iron and steel (general)	5,843
399/8	Miscellaneous metal goods	4,729
423	Textile finishing	2,905
431	Leather (tanning and dressing) and fellmongery	3,723
462	Pottery	3,013
491	Rubber	8,192
492	Linoleum, plastics floor-covering, leather-cloth, etc	7,688
496	Plastics products	2,005
603	Water supply	1,970
PERCENT TO PE	Other industries	21,108
ara, es recit me le	Total	135,977

⁽a) The figures include purchases of imported as well as of home produced goods.

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

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

	196	33	1968	
	Quantity	Cost	Quantity	Cost
terials for use in production	Th.tons	£,000	Th.tons	£,000
Crude tar acids and other derivatives of coal tar not elsewhere specified (including creosote and anthracene		Chauri buc		segro fe
oils, etc, but excluding cyclic hydrocarbons and	ecodropo	Med to Start		keyo telf
phenol)		1,340	betten	1,263
Essential oils (other than turpentine)		3,971	••	3,892
Sulphur (elemental) and sulphur-bearing materials (including anhydrites, pyrites, spent oxide)		159	· · · · · · · · ·	129
Salt and brine		480	·olti	510
Silicon and silicon-bearing materials	hire enistin	95	tont district	360
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap	, wegazad , (nelygong)		- T
Aluminium and aluminium alloys		(b)	1.5	391
Copper (including cadmium copper)	ofe wasteners	(b)	0.6	361
Lead and alloys of lead (excluding solder) (c)	34.7	2,268	50.9	5,390
Nickel and nickel alloys (excluding nickel silver and cupro nickel)	3,218	(b)	0.8	780
Zinc and zinc dust	2.7	246	0.9	97
Other metals	allenin . at	346(d)	Indo-1	1,123
Animal and vegetable oils and fats		884(d)		4,166
Other vegetable products		(b)		1,413
Other mineral products		63 (d)	a rieds bon	855
Inorganic chemicals (including inorganic gases)	Lon bus seb	seir anhydr	ic adids. it	
Ammonia (in terms of 100 per cent. NH ₃) synthetic and by-product (e)	ebi e	68	3.2	101
Acids	The second			
Sulphuric including oleum (in terms of 100 per cent. acid) (f)	18.0	151	22.4	254
Nitric (in terms of 100 per cent. acid)	0.8	26	9.3	169
Phosphoric (ortho-, meta-, and pyro-, in terms of 100 per cent. ortho-phosphoric acid				Enters
equivalent) (g)	0.5	67	1.5	218
Aluminium oxide and hydroxide (in terms of A1 ₂ 0 ₃) (h)	1.3	152	5.9	258
Sodium carbonate (including soda crystals and soda ash)	12.2	161	do somitim	461
Sodium hydroxide (caustic soda)	35.1	729	59.5	1,198
Ammonium compounds	lesoquiq Es	starbat of	1.2	136
Phosphorus and phosphorus compounds	}	4,215	8.8	909
Other inorganic chemicals	Jacqius 30	le rezorigi	bus ofuspe	9,938
Organic chemicals (including dyestuffs intermediates and organic gases)	35,607	1,550.5	pisoise	o radio
Alcohols and ether-alcohols	Th. lacres	damen toom		ell'he recove
Ethanol (ethyl alcohol)	45.000			
Duty paid	0.3	852 564	0.1	902 120
Duty free	1.5	99	2.1	151
Butanol (butyl alcohol)	2.6	292	1.8	155
hispod s	col el Cunyan		46.9	5,723
Other	36.2	3,895	10.3	67

Continued on next page.

⁽b) Specified census industries for which purchases are one per cent. or more of the total.

⁽c) Mixtures of inorganic and organic chemicals.

TABLE 10 (continued)

	19	1963		1968	
	Quantity	Cost	Quantity	Cost	
Materials for use in production (continued)	Th.tons	£,000	Th.tons	£'000	
Organic chemicals (including dyestuffs intermediates and organic gases) (continued)	tupo to maria	destron	is nicosu	riels for	
Halogenated derivatives of hydrocarbons	te bus alososi a alodisoorbyo		pacified (sawhere s	
Chlorinated	13.2	856	17.6	1,132	
Other	(601.38	(i)	22.6	3,398	
Hydrocarbons	(aptixo tunda		and strainsma	neluding	
Aliphatic Control of the Control of			.750 enl	ad ban 11	
Acetylene (not dissolved), ethane and ethylene	Make	elar ing mate	23.8	1,036	
Propane, propene (propylene), butanes, butenes (butylenes), and butadienes	0070	1,894	3.3	177	
C_5 and higher aliphatic hydrocarbons (heptenes, dilsobutylene, propylene tetramer, etc)	(34	adaria anio	28.4	1,863	
Cyclic hydrocarbons) (hablos galā	uloxe) bael	alloys Odf.	ben baod	
Detergent alkylates	and 1 age age the	oys (exc.)	2.6	256	
Toluene (pure grades)		2,675	4.5	147	
Other (including benzole 90's, toluole 90's)			11.8	556	
Ketones	2.3	134	Vagetable	273	
Phenols and their salts (j)	3.3	262	15.6	1,450	
Carboxylic acids, their anhydrides and acid halides	and the same of th		Douborg in	serim red	
Acetic acid and acetic anhydride	4.9	465	1.6	173	
Phthalic anhydride	13.7	1,155	19.6	2,252	
Other		1	6.0	1,370	
Aldehydes	MILES SETERE	a) moele ju	9.2	775	
Epoxides (ethylene oxide, propylene oxide etc)	Mica , Ames	11,843	17.2	1,693	
Esters	a language	11,040	2.3	512	
Nitrogen-function compounds			3.8	961	
Other organic chemicals	tin terms of A	ahl 203 lvgt	one abixo e	8,801	
Other (eg mixtures of inorganic and organic chemicals) (k)	as Kajegro ab	oa shibulon 21	108	ab authod (dan	
Catalysts prepared for industrial purposes		1	977	202	
Surface active materials (other than washing and scouring preparations), including wetting and emul-	abquo	DOGENE CORE	endo bas es	Phosphore	
sifying agents and sulphonated or sulphated oils, alcohols and hydrocarbons		4,322	organic olg	Other in	
Other chemicals	stuffs interm	outh gardherla	ii) alsoime	787	
	J	sindonts	recess a	6,963	
Dyestuffs for blending and further processing	Th.gal.	(b)		1,017	
	783	106	Th.gal.	72	
Lubricating oils and greases	Th.cwt.		Th.cwt.		
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought	3.1	7 (Lodoo	8.4	23	
Tyres and other spare parts for firms' own road goods vehicles	1	1		rodito	
Other		810	The state of the s	134	
)	L	••	3,162	
All other materials for use in production		13,536		29,700	

TABLE 10 (continued)

	1	1963		1968	
	Quantity	Cost	Quantity	Cost	
Packaging materials		£'000	Amounta	£'000	
Paper and board				1100	
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard		003000 1000		428	
Fibreboard packing cases	}	452 4	ani salika l	283	
Bags and multiwall paper sacks (1)	١,	184			
Wrapping and packing paper and other packaging materials of paper and paperboard (including paper coated with plastics and any laminates incorporating paper but not metal and moulded pulp units and labels but excluding paper and board for converting into packaging materials)(m)	Noon Book Too	101	rade sollio rad radio of	287	
Metal	SOLIDISES SEL	0.2800	14304	103	
Cans and boxes	- ware day	Citation 1	na i JASSon	ne allign.	
The state boxes	Thousands	414	mı	514	
P1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-		1	Thousands	1,800	
Barrels, kegs and drums	1,203	1,482 {		427	
Aluminium collapsible tubes, aluminium foil, and any laminates incorporating aluminium foil and aluminium foil labels and closures, and other packaging materials of metal including crown corks, wire, foil	or , sol are	c was his sale	indig of the		
and any laminates incorporating foil, foil labels and foil closures, tensional steel strappings, etc		79	latel's	124	
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates and other wood products for packaging (including wood wool but excluding timber (sawn or planed) or plywood for manufacture into packing cases)	anatahinga Agglapati	122	Gi bas 830: To b dgari	226	
	110	t sol vloy	5 490	137	
Glass containers (including glass syphons)	17,822	532 {	5,489	85	
Plastics (other than transparent regenerated cellulose film)					
Film, bags, sacks, sheets and sheeting		43		162	
Moulded and fabricated containers including closures and inserts but excluding re-usable crates		334		1,850	
All other packaging materials		273	alder	217	
uel and electricity (n)	Th.tons		to have cons		
Coal	90.0	445	to a mount	1,752	
Coke (including screenings) and manufactured fuel	3.5	25	se bebrecous	29	
August	Th.gal.		Th.gal.	107 (57	
Derv fuel and motor spirit for use in road vehicles	779	152	926	239	
Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases)	38,507	1,411 {	44,801	1,943(o)	
Gas beauty has (agimals) successful a	Th.therms 2,858	184	Th.therms 4,361	291	
7088 . Cor 1963	Th.kWh	Other organ	Th.kWh	Conl (i)	
Electricity	528,704	2,433	1,628,736	6,342	
Total cost of materials and fuel	baheri	67,855	wand page	127,772	
oods purchased for merchanting	ofat batt	17,388	exact has a	24,444	
anteen purchases	10261	250	to Alleuigh	537	
Total cost of purchases	dictricals	85,492	ury letat r	152,754	

For footnotes to this table - see page 29/16.

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

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

2000 Decree the time in decree 32 decree in the control of	Unit	1963	1968
werage number mainly employed on transport	No.	503	636
ransport costs		Exacti	ina hua
Wages and salaries	£'000	394	728
Derv fuel and motor spirit	11	152	239
Tyres and other spare parts for road goods vehicles	ism spisci w bolleno	eq sello h	134
by road	and tempor		2,783
Payments to other organisations for transport by rail and other means excluding postal services	100 H	2,095	500
Costs of operating road goods vehicles			
Insurance	"	23	31
Vehicle licences	11	36	67
Depreciation	"	238	217
Payments to other organisations for repairs and maintenance	reiner is be	74	119
Total	aladat II	3,011(b)	4,819

- (a) The 1963 and 1968 figures in this table are not strictly comparable see paragraph 4 of the introduction to this report.
- (b) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

Footnotes to Table 10.

- (a) The 1963 and 1968 figures in this table are not strictly comparable see paragraph 4 of the introduction to this report.
- (b) Not recorded separately for 1963.
- (c) For 1963 described as 'Lead Metallic'.
- (d) So far as separately recorded.
- (e) For 1963 described as 'Ammonia liquor (in terms of 100 per cent. ammonia) and anhydrous'.
- (f) Oleum was not specifically included for 1963.
- (g) For 1963 described as 'Phosphoric (in terms of 100 per cent. acid)'.
- (h) For 1963 described as 'Aluminium oxide anhydrous (alumina) and hydrated (aluminium hydroxide)'.
- (i) Included with 'Other organic chemicals' for 1963.
- (j) Salts were not specifically included for 1963.
- (k) For 1963 described as 'Other heavy chemicals'.
- (1) For 1963 bags were not included.
- (m) Paper and board for converting into packaging materials were not specifically excluded for 1963.
- (n) 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.
- (o) For 1968, may include a small amount of fuels not covered by specific headings.

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

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

	Amounts	Amounts payable		
	1963	1968		
Repairs and maintenance to	£,000	£'000		
Buildings	191	427		
Road goods vehicles	74	119		
Plant, machinery and other capital equipment	835	1,315		
Insurance, licensing and depreciation of road goods vehicles (c)	297	315		
Rates, excluding water rates	1,004	1,611		
Hire of plant and machinery	150	244		
Postage, telephone, telegrams, cables and telex (d)	508	754		
Total	3,059	4,784		

- (a) The 1963 and 1968 figures in this table are not strictly comparable see paragraph 4 of the introduction to this report.
- (b) No deduction is made for these payments to arrive at the figures of net output given in this report.
- (c) For details see Table 11.
- (d) Excluding telex for 1963.

Percentage analysis of twelve-month TABLE 13 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)	-		
May	0.9	0.1	
June	2.7	1.5	
July	0.9	0.2	
August	-	-	
September	4.5	0.9	
October	6.4	1.8	
November	1.8	1.4	
December	61.0	50.5	
1969			
January	1.8	2.2	
February	3.6	3.1	
March	16.4	38.3	
April (b)	-	-	
	100	100	

⁽a) From 6 April.

⁽b) To 5 April.

ABLE 12 Payment's long-contain, sour type, ole, by langer an almon and a second contains and a long contains a lon

in desirated and the Common street in the Annual Manager Common and the Common street an

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(b) No deducation to made for these between a first of the Thirty of the Control of the control

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⁽a) From # April.