If not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

 General - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials..." line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials...," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges). If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

- 3. Contract Work Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.
- 4. Resales Cost for products bought and sold of py transferred from other establishments of four company and sold without further minufacture, processing, or assembly should be readed in item 10, line b, no tru item 17 Se ov. The value of these products minuped by this establishment should be reploted in item 18B under Census producted in 25 8 200 6, "Resales."
- Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

	Materials, parts, and supplies		Census material code	Unit of measure for quantities	Basis	Consumption of purchased materials and of materials received from other establishments of your company					
No.						Quantity	Cost, including delivery cost (freight-in) (E)				
Line No.			571			573	574	Thou-			
	ACIDS (Except	(A)	(B)	(C-1)	(C-2)	(D)	Millions	sands	Dollars		
1	spent acids)	Hydrochloric acid	281944 9		100% HCI		\$				
2		Hydrofluoric acid	281946 4		100% HF						
3		Nitric acid	287311 5		100% HNO ₃						
4		Sulfuric acid	281931 6	Short tons	100% H ₂ SO ₄						
5	5 Ammonia, synthetic anhydrous		287312 3		100% NH ₃			I I I I			
6	Chlorine	281211 3		100% CI							
7	Sodium hydrox	281238 6	\downarrow	100% NaOH							
8	All other indust	280099 3									
9	Acetylene and c compressed and argon, carbon d oxide, etc.	281301 2									
10	Alcohol, ethyl (p	oure and denatured)	286952 7								
11	Other alcohols, and propyl	including amyl, butyl, methyl,	286957 6								
12	Toluene and xy	lene	286519 4	1	Ť						
13	3 Phenol4 Ortho and para-xylene		286513 7	Thousand	100%						
14			286590 5	pounds	↓ ↓						
	Benzol (benzene	286552 5	↓	100% C ₆ H ₆							
16	Tar, crude		286553 3	Short tons							
	CONTINUE WITH ITEM 17 ON PAGE 6										

	Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued										
	Materials, parts, and supplies (A)		Census material code	Unit of	Basis	Consumption of purchased materia and of materials received from othe establishments of your company					
Line No.				measure for quantities		Quantity	Cost, including delivery cost (freight-in) (E)				
Lin			571 (B)	(C-1)	(C-2)	573 (D)	574 Millions	Thou- sands Dollars			
17	Other cyclic cru	des and intermediates	286505 3	Thousand pounds			\$				
18	Acetone (natura	l and synthetic)	286970 9	↓ pounds							
19	Other synthetic	organic chemicals, n.e.c.	286099 7								
20	HYDRO- CARBONS USED AS	Natural gas	131152 1	Million cubic feet							
21	RAW MATERIALS	Ethane	2911A1 3								
22	UDO NOT	Ethylene	2911A2 1								
23	include fuel or energy reported in	Propane	2911A3 9	Thousand							
24	item 10c)	Propylene	2911A4 7	pounds							
25		Butane and iso-butane	2911A5 4	-							
26		Butylene and iso-butylene	2911A6 2	↓							
27		Other	190012 5								
28	Sulfur		147901 3	Long tons							
29	granules, pellets	onsumed in the form of s, powders, liquids, etc., but cs sheets, rods, and other	282104 9	Thousand pounds							
30	Agricultural pro flowers, grains,	ducts (crude) including seeds, herbs, etc.	019101 5								
31	Parts and attach equipment	ments for machinery and	355911 9								
32	Paperboard con paperboard	tainers, boxes, and corrugated	265001 8								
33	Metal container	S	340001 7								
34	parts, container	materials and components, s, and supplies consumed	970099 8								
	Describe the three principal materials, etc., included in this value.										
35	TOTAL Sum of lir item 10, li	nes 1–34 should equal ne a					\$				
lt	em 18A – Not	applicable to this report									

CONTINUE WITH ITEM 18B ON PAGE 7

MC-2810

8

9

10

11

12

13

14

REFINERY PRODUCTS (28656)

Synthetic

Organic Chemicals, N.E.C. (28693)

Other uses

FLAVOR AND

PERFUME

MATERIALS

Plasticizers

Rubber processing chemicals

Other synthetic organic chemicals, n.e.c.

15 Miscellaneous end-use chemicals and chemical products, excluding urea

Pesticides and other synthetic organic agricultural chemicals, except preparations (Report preparations on lines 54–63)

Chemical compounds for use as flavor and perfume materials, unmixed

Chemical compounds for use as flavor and perfume materials, mixed

Fo	orm MC-28	10						Page 7
li f	f not shown, ple rom the address	ase enter your 11-digit Census File Number a label on page 1		Census File Number				
ľ	tem 18B. PRO	DUCTS AND SERVICES OF THIS ESTABL	ISHN	IENT DURING 1997				
		INST	лост	IONS				
	listed below make produ them in the establishme DO NOT CC If the inform from your b ACCEPTABL 2. Valuation o products sh selling value discounts and charges and If you transf your compa to the transf	The manufactured products and services are generally made in your industry. If you cts that are not listed, describe and report "All other products made in this nt" section at the end of item 18B. PLEASE MBINE PRODUCT LINES. Thation as requested cannot be taken directly ook records, REASONABLE ESTIMATES ARE E. OF Products – Report the value of the lipped and services performed at the net a, f.o.b. plant to the customer; i.e., after and allowances, and exclusive of freight I excise taxes. The products to other establishments within ny, you should assign the full economic value ferred products; i.e., include all direct costs of and a reasonable proportion of all other costs	ort PRODUCTS MADE BY OTHERS MATERIALS on the specific lines this establishment. On the other the specific product lines MADE FROM MATERIALS Report only the amount that you on or contract receipts" under 3000 00 8. rt on the specific product lines GHT AND SOLD OR OTHER ESTABLISHMENTS OF SOLD WITHOUT FURTHER rt only a value under Census 6, "Resales." ed Eleswhere – Items denoted by otals for groups of products Industrial Reports (CIR). If you the sum of the detailed CIR the total reported on this census					
Line No.		Products and services (A)	Census product code 581 (B)	584	pts, inc nt trans .o.b. pl . (E)	ant		
1	Tar tar grudo	and tar pitchos			28655 00 9	\$		l
1		s, and tar pitches			20033-00-9	\$	1 	
2	Cyclic (coal ta	r) intermediates			28651 00 8		 	
3	Synthetic orga	anic dyes	28652 00 6		 	 		
4	Synthetic orga	anic pigments, lakes, and toners	28653 00 4		 			
5	REFINERY PRODUCTS	Chemical raw material			28691 32 7		, 	
6	(28691)	Other uses			28691 33 5		l l	1
7	AROMATICS MADE FROM PURCHASED	Chemical raw material			28656 58 5		 	

CONTINUE WITH ITEM 18B ON PAGE 8

28656 59 3

28694 00 8

28693 13 3

28693 15 8

28693 31 5

28693 51 3

28693 99 2

28696 00 3

	rm IVIC-28						Page 8
lt	em 18 B. PRO	DUCTS AND	SERVICES OF THIS ESTABLISHMENT DURING 1997 -	Continued			
		* Iter	Census product	Products shipped and other receipts, including interplant transfers Value, f.o.b. plant			
No.		01	n Current Industrial Reports (ĊIR)	code	(E)		
Line No.				581	584	 Thou-	
			(A)	(B)	Millions	sands	Dollars
16	MISCELLA- NEOUS	Fluorocarbon	gases	28697 11 8	\$	l I	l l
17	CYCLIC AND ACYCLIC CHEMICALS	Carbon bisulfi	de (disulfide)	28697 13 4			
17	AND CHEMICAL			20097 13 4		 	
18	PRODUCTS (28697)	Fatty acid este	ers	28697 15 9		 	
19	(20037)	Other		28697 19 1		 	
20	Other Industrial	Flavor oil mix	tures and blends	28698 31 4		 	
21	Organic Chemicals (28698)	Reagent and h purchased tec	high purity grades of organic chemicals refined from	28698 37 1			
	(20038)	NATURAL	Derivatives of fatty substances, including salts, alcohols				
22		ORGANIC CHEMICALS,	and esters, except plasticizers and surface active agents	28698 53 8		1	
23		N.E.C.	Other natural organic chemicals, n.e.c.	28698 55 3		 	
		Other industri	al organic chemicals, n.e.c. – <i>Specify by kind</i>			1	
				00000.00.0		 	
24	Ethyl	MANUFAC-		28698 98 3		+	
25	Alcohol (28692)	TURED BY THE WET	Pure (natural)	28692 10 1		 	
26		MILL PROCESS	Fuel ethanol	28692 15 0		 	
27			Other denatured (special or complete), including natural and synthetic, for uses other than rubbing	28692 19 2		 +	1
28		MANUFAC- TURED BY OTHER	Pure (natural)	28692 20 0		 	
29		PROCESSES (Dry mill/	Fuel ethanol	28692 25 9		 	
30		distillation)	Other denatured (special or complete), including natural and synthetic, for uses other than rubbing	28692 29 1		 	
31	Distillers' dried	d grains, dark a	nd light, and dried solubles	20851 65 5			1
32	Rubbing alcoh	ol		28346 00 5		 	
33	Thermoplastic	resins and pla	stics materials	28213 00 7		 	
34	Thermosetting	resins and pla	28214 00 5		 	1	
	Synthetic rubb Specify kind	ber (vulcanizabl			 		
35				28220 00 2		1 	
36	Urea (Also cor Fertilizer Mate	responds to su rials)*	m of item codes 3184 to 3189 on CIR MA28B, Inorganic	28732 00 6		 	
37	SYNTHETIC ORGANIC		bulk (nonpreparations)	28331 10 6		 	1
38	MEDICINAL CHEMICALS		nthetic organic medicinal chemicals	28331 20 5		 	
39	Surfactants (b	ulk surface acti		28430 85 8			

CONTINUE WITH ITEM 18B ON PAGE 9

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Census File Number

from the address label on page 1										
IT	EM 18B - PRC	DUCTS AND S	ERVICES OF T	HIS ESTABLISHMENT DURING 1997 -	Continued					
		*Item c	Products and sorresponds to p	Census product code	Products s other receip interplan	luding fers				
e No.		on Current Industrial Reports (CIR)						ant		
Line			(A)		581 (B)	584 Millions	Thou- sands			
40	ALKALIES AND CHLORINE	Chlorine (comp		ed)(Corresponds to item codes 2111 and	28121 00 2	\$	 			
41		Sodium hydrox	ide (caustic soda	a) (Corresponds to the sum of item codes organic Chemicals)*	28123 00 8	¢	i I	1		
42	INDUSTRIAL INORGANIC CHEMICALS	Synthetic ammo (Corresponds to	onia, nitric acid, o the sum of iter	and ammonium compounds n codes 3111–3143 and 3151–3168 on CIR erials and Related Products)*	28731 00 8		 			
43		Sulfuric acid (Co	orresponds to th	ne sum of item codes 9311–9331 on CIR rerials and Related Products)*	28193 00 1		<u> </u> 	 		
		Phosphoric acid	l (Corresponds t	o the sum of item codes 3473–3474 on			 	I		
44		Other inorganic	acids (Correspo	Materials and Related Products)* onds to the sum of item codes 3411–3497	28741 00 7		1 † 			
45		on CIR MA28A, Inorganic Chemicals)* Potassium and sodium compounds, except bleaches, alkalies, and alum					<u> </u> 			
46		(Corresponds to Inorganic Chem	o item codes 322	25 and 3703–3788 on CIR MA28A,	28197 00 2		1 			
47		Chemical cataly MA28A, Inorgan	rtic preparations nic Chemicals)*	(Corresponds to item code 3811 on CIR	28198 00 0					
		reactivated cark	chemicals, exce oon and inorgan 8, and 8999 on (+ 				
48					28199 97 4		 			
49	INDUSTRIAL GASES	Acetylene (Corr MA28C, Industr		sum of item codes 2106–2108 on CIR	28132 00 9		1			
50	(Elemental, compressed, and liguefied)	Carbon dioxide CIR MA28C, Ind	(Corresponds to lustrial Gases)*	28133 00 7		 				
51	und nquened)		sponds to the si	28135 00 2		 	 			
52		· · ·	ponds to the su	m of item codes 4414–4443 on CIR	28136 00 0		 			
53		Other industrial (Corresponds to MA28C, Industr	o the sum of iter	g argon, hydrogen, and carbon monoxide n codes 4101–4209 and 4513–4713 on CIR	28137 00 8		 			
54	Pesticidal Preparations (Formulations)	INSECTICIDAL PREPARA- TIONS	Agricultural and commercial	Organo-phosphate compounds Other – Specify kind	2879A 13 5		 			
55	(Primarily for lawn, garden, agricultural and				2879A 17 6		 			
56	commercial		Lawn and garden	Organo-phosphate compounds	2879C 13 1		 			
				Other – Specify kind						
57		HERBICIDAL	Agricultural		2879C 17 2		 			
58		PREPARA- TIONS	and commercial	Phenoxy compounds Other – Specify kind	2879A 21 8		 			
59					2879A 29 1		ı 			
60			Lawn and garden	Phenoxy compounds	2879C 21 4		 	1		
				Other – Specify kind	20702 02 -		 			
61		SOIL	2879C 29 7		 					
62		FUMIGANTS	Agricultural an	2879A 41 6		<u> </u>				
63			Lawn and gard	2879C 41 2		1 				
64	Antifreeze prepa Chemical prepa	arations rations, n.e.c. – S	Specify kind		28995 34 8		1			
65					28995 00 9		 			

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued										
		Products and services	Census product	Products s other receij interplar	ots, inclu	uding				
No.			code	Value, f.o.b. plant (E)						
Line No.		(A)	581 (B)		Thou- sands	Dollars				
66	Lubricating and transformer oils	similar oils, including hydraulic fluids, quenching and cutting oils, , and liquid rust preventatives	29920 21 2	\$						
	ALL OTHER PRODUCTS MADE IN THIS ESTABLISH- MENT	Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. Specify unit of measure for quantity. For all remaining products, write "Other" and report a single total value.			 					
67			18							
68			26							
69			34							
70	RECEIPTS FOR CONTRACT WORK	Receipts for work done for others on their materials Describe below products worked on and kind of work.	93000 00 8							
71	MISCELLA- NEOUS RECEIPTS	Sales of scrap, refuse, sold electricity, and other miscellaneous receipts (including receipts for repair work, etc.)	99980 00 5							
72	RESALES	Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 10, line b.	99989 00 6							
73		alue of shipments and other receipts nes 1–72, column (E)	77000 00 8	\$						
lt	ems 19–21 – ľ	Not applicable to this report	<u> </u>							
REMARKS – Please use this space for any explanations that may be essential in understanding your reported data.										
It	em 22. CERTI	FICATION – This report is substantially accurate and has been prepared	d in accordan	ice with inst	ruction	s.				
	ame of person to	o contact regarding this report (<i>Print or type</i>) Area co	ode Numbe	er	Extens	ion				
	ame of company		eet, city, State	e, ZIP Code)	1					
		FROM: Month Day Year TO: Month	Dav	y I Date	Year					
7	guatare or autile			Date						