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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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."

Line No.	Materials, parts, and supplies  <b>(A)</b>		Census material code  <b>(B)</b>	Unit of measure for quantities  <b>(C-1)</b>	Basis  <b>(C-2)</b>	Consumption of purchased materials and of materials received from other establishments of your company				
						Quantity  <b>(D)</b>	Cost, including delivery cost (freight-in) <b>(E)</b>			
							Millions	Thousands	Dollars	
			571			573	574			
<b>1</b>	ACIDS (Except spent acids)	Phosphoric acid	287410 5	Short tons	100% P <sub>2</sub> O <sub>5</sub>		\$			
<b>2</b>		Sulfuric acid	281931 6		100% H <sub>2</sub> SO <sub>4</sub>					
<b>3</b>	Chlorine		281211 3		100% Cl					
<b>4</b>	Phosphorus, elemental		281996 9		Technical					
<b>5</b>	Sodium carbonate (soda ash)		281228 7		58% Na <sub>2</sub> O					
<b>6</b>	Sodium hydroxide (caustic soda)		281238 6		100% NaOH					
<b>7</b>	Salt in brine		289911 0							
<b>8</b>	Other industrial inorganic chemicals		281002 6							
<b>9</b>	Synthetic organic chemicals		286003 9							
<b>10</b>	CRUDE MATERIALS	Bauxite	109901 9	Short tons						
<b>11</b>		Phosphate rock	147501 1							
<b>12</b>		Sulfur	147901 3	Long tons						
<b>13</b>		Iron and ferroalloy ores, including tungsten, chromite, manganese, molybdenum, and cobalt	100107 2							
<b>14</b>		Nonferrous metal ores, including copper, mercury, vanadium, titanium, platinum, etc.	100207 0							
<b>15</b>		All other crude chemical nonmetallic minerals, including barite, borate, potash, flourspar, rock salt, etc.	147007 9							
<b>16</b>	Coke, including breeze, used as a raw material		331210 5	Short tons						

CONTINUE WITH ITEM 17 ON PAGE 6

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued										
Line No.	Materials, parts, and supplies  <b>(A)</b>		Census material code  <b>(B)</b>	Unit of measure for quantities  <b>(C-1)</b>	Basis  <b>(C-2)</b>	Consumption of purchased materials and of materials received from other establishments of your company				
						Quantity  <b>(D)</b>		Cost, including delivery cost (freight-in)  <b>(E)</b>		
						573		574	Thou-	Dollars
	Millions	sands								
17	OTHER PARTS, MATERIALS, AND ACCESSORIES	Parts and attachments for machinery and equipment	355911 9							
18		Paperboard boxes and containers and corrugated paperboard	265001 8							
19		Metal containers	340001 7							
20	Cost of all other materials and components, parts, containers, and supplies consumed . . . <i>Describe the principal materials, etc., included in this value.</i>		970099 8							
21	<b>TOTAL</b> Sum of lines 1–20 should equal item 10, line a									

**Item 18A** – Not applicable to this report

**Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997**

**INSTRUCTIONS**

- General** – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.  
  
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.
- Valuation of Products** – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.  
  
If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.
- Contract Work** – Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.
- Resales** – Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."
- Detailed Data Reported Elsewhere** – Items denoted by an asterisk (\*) require totals for groups of products covered in the Current Industrial Reports (CIR). If you report on these forms, the sum of the detailed CIR products should equal the total reported on this census form.

**NOTE:** Only totals are requested; do not duplicate detail reported on the CIR reports.

Line No.	Products and services  *Item corresponds to products reported on Current Industrial Reports (CIR)  <b>(A)</b>		Census product code  <b>(B-1)</b>	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts						
				CIR form  <b>(B-2)</b>	Item code  <b>(B-3)</b>	Value, f.o.b. plant  <b>(E)</b>						
						584	Thou-	Dollars				
	Millions	sands										
1	ALKALIES AND CHLORINE	Chlorine, compressed or liquefied*	28121 00 2	↑ MA28A ↓	2111, 2115	\$						
2		Sodium hydroxide (caustic soda)*	28123 00 8						2362-2368			
3		Other alkalies* (report alkaline detergents on lines 39–42)	28125 00 3									
4	<b>Industrial Inorganic Chemicals, N.E.C.</b>	Sulfuric acid*	28193 00 1	MA28B	9311-9331							
5		Inorganic acids, except nitric, sulfuric, and phosphoric*	28194 00 9	↑ MA28A ↓	3411-3447 3451-3497							
6		Aluminum oxide*	28195 00 6		3511							
7		(Continued on next page)	Other aluminum compounds*		28196 00 4	3613-3679						

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**Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued**

Line No.	Products and services <small>*Item corresponds to products reported on Current Industrial Reports (CIR) schedules</small>		Census product code <small>581</small>	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts			
						Value, f.o.b. plant <b>(E)</b>			
				<b>(A)</b>	<b>(B-1)</b>	<b>(B-2)</b>	<b>(B-3)</b>	<small>584</small> Millions	Thou- sands
<b>8</b>	<b>Industrial Inorganic Chemicals, N.E.C. – Continued</b>	Potassium and sodium compounds, except bleaches, alkalis, and alum*	28197 00 2	↑ MA28A ↓	3703-3788	\$			
<b>9</b>		Chemical catalytic preparations*	28198 00 0		3811				
<b>10</b>		<b>OTHER INDUSTRIAL INORGANIC CHEMICALS, N.E.C. (28199)</b>	Activated and reactivated carbon and charcoal, pulverized and granular*		28199 25 5	3989, 3990			
<b>11</b>			Inorganic dyes (report organic dyes on lines 39–42)		28199 91 7	3221			
<b>12</b>			Other inorganic chemicals, n.e.c.* – <i>Specify kind</i>		28199 97 4	3225, 3235 3891-3946 3985, 3986 3992-4998 8999			
<b>13</b>			<b>Household Bleaches (28422)</b>		LIQUID	Chlorine bleaching compounds (sodium hypochlorite, etc.)*	28422 44 2	3221	
<b>14</b>	Non-chlorine bleaching compounds (hydrogen peroxide, etc.)*	28422 45 9		3221					
<b>15</b>	DRY	Chlorine bleaching compounds (calcium hypochlorite, etc.)*		28422 54 1	3231				
<b>16</b>		Non-chlorine bleaching compounds (sodium perborate, etc.)*		28422 55 8	3231				
<b>17</b>	Phosphoric acid*	28741 00 7	↑ MA28B ↓	3473, 3474					
<b>18</b>	Synthetic ammonia, nitric acid, and ammonium compounds*	28731 00 8	3111-3143 3151-3159 3161, 3162 3166-3168						
<b>19</b>	Titanium dioxide, composite and pure*	28161 00 8	MA28A	6111					
Line No.	Products and services <small>*Item corresponds to products reported on Current Industrial Reports (CIR)</small>		Census product code <small>581</small>	Unit of measure for quantities <small>583</small>	Products shipped and other receipts				
					Value, f.o.b. plant <b>(E)</b>				
					<b>(A)</b>	<b>(B)</b>	<b>(C)</b>	<b>(D)</b>	<small>584</small> Millions
<b>20</b>	<b>OTHER WHITE OPAQUE PIGMENTS (28162)</b>	Zinc oxide pigments	28162 24 6	↑ Short tons ↓		\$			
<b>21</b>		Titanium pigment preparations	28162 55 0						
<b>22</b>		All other white opaque pigments	28162 65 9						
<b>23</b>	<b>CHROME COLORS AND OTHER INORGANIC PIGMENTS (28163)</b> <small>(Report synthetic organic pigments, lakes, and toners on line 30)</small>	Chrome colors (corresponds to sum of item codes 6313-6320 on CIR form MA28A)*	28163 10 3	↑ Thousand pounds ↓					
<b>24</b>		White extender pigments, including barytes, blanc fixe, and whiting	28163 27 7		Short tons				
<b>25</b>		Iron oxide pigments	28163 31 9						
<b>26</b>		Carbon blacks (bone and lamp only), excluding charcoal (report channel and furnace process on line 29)	28163 88 9						
<b>27</b>		Ceramic colors	28163 91 3						
<b>28</b>		All other inorganic color pigments, n.e.c.	28163 98 8						
<b>29</b>	Carbon black (channel and furnace process only)	28950 00 4	Thousand pounds						
<b>30</b>	Synthetic organic pigments, lakes, and toners	28653 00 4							
<b>31</b>	Cyclic (coal tar) intermediates	28651 00 8							
<b>32</b>	Tar, tar crudes, and tar pitches	28655 00 9							
<b>33</b>	Miscellaneous end-use chemicals and chemical products	28696 00 3							

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued							
Line No.	Products and services  (A)		Census product code  (B)	Unit of measure for quantities  (C)	Products shipped and other receipts		
					Quantity  (D)	Value, f.o.b. plant (E)	
						584 Millions	Thou- sands
34	MISCELLANEOUS CYCLIC AND ACYCLIC CHEMICALS AND CHEMICAL PRODUCTS (28697)	Fluorocarbon gases	28697 11 8			\$	
35		Carbon bisulfide (disulfide)	28697 13 4				
36		Fatty acid esters	28697 15 9				
37		Other	28697 19 1				
38	Pesticides and other synthetic organic agricultural chemicals, except preparations		28694 00 8				
39	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	<i>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.</i>	18				
40			26				
41			34				
42			42				
43	RECEIPTS FOR CONTRACT WORK	Receipts for work done for others on their own materials . . . . . <i>Describe below products worked on and kind of work.</i>	93000 00 8				
44	MISCELLANEOUS RECEIPTS	Sales of scrap, refuse, electricity, and other miscellaneous receipts (including receipts for repair work, etc.)	99980 00 5				
45	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				
46	<b>TOTAL value of shipments and other receipts</b> Sum of lines 1-45, column (E)		77000 00 8			\$	

Items 19-21 - Not applicable to this report

REMARKS - Please use this space for any explanations that may be essential in understanding your reported data.

Item 22. CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report (Print or type)		Telephone	Area code	Number	Extension		
667	1		2				
Name of company			Address (Number and street, city, State, ZIP Code)				
Period covered		FROM: Month	Day	Year	TO: Month	Day	Year
		666	1		2		
Signature of authorized person				Title		Date	