from the address label on page 1

## Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

## INSTRUCTIONS

1. 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 9700998.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 99989006 , "Resales."
5. Produced and Consumed - Industrial Chemicals 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(A) |  | Census material code <br> (B) | Unit of measure for quantities <br> (C-1) | Basis(C-2) | Consumption of purchased materials and of materials received from other establishments of your company |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Quantity |  |  | Cost, including delivery cost (freight-in) <br> (E) |  |  |
|  |  |  |  |  |  | $\begin{array}{\|r\|r\|} \hline 574 & \\ \hline \text { Millions } \\ \hline \end{array}$ | $\begin{aligned} & 1 \\ & \text { I Thou- I } \\ & \text { I sands } \\ & \hline \end{aligned}$ | Dollars |
| 1 | ACIDS (Except spent acids) | Hydrochloric acid |  | 2819449 | Short tons | 100\% HCl |  | \$ |  |  |
| 2 |  | Hydrofluoric acid |  | 2819464 |  | 100\% HF |  |  |  |  |
| 3 |  | Nitric acid | 2873115 | $\begin{aligned} & 100 \% \\ & \mathrm{HNO}_{3} \end{aligned}$ |  |  |  | , | , |
| 4 |  | Sulfuric acid | 2819316 | $\begin{gathered} 100 \% \\ \mathrm{H}_{2} \mathrm{SO}_{4} \end{gathered}$ |  |  |  |  |  |
| 5 | Ammonia, synthetic anhydrous |  | 2873123 |  | 100\% $\mathrm{NH}_{3}$ |  |  |  |  |
| 6 | Chlorine |  | 2812113 |  | 100\% Cl |  |  |  |  |
| 7 | Sodium hydroxide (caustic soda) |  | 2812386 | $\downarrow$ | $\begin{aligned} & 100 \% \\ & \mathrm{NaOH} \end{aligned}$ |  |  |  |  |
| 8 | All other industrial inorganic chemicals |  | 2800993 |  |  |  |  | $\begin{array}{ll} 1 & 1 \\ 1 & 1 \end{array}$ |  |
| 9 | Acetylene and other industrial gases, compressed and liquefied, including argon, carbon dioxide, nitrogen, nitrous oxide, etc. |  | 2813012 |  |  |  |  | ! | ! |
| 10 | Alcohol, ethyl (pure and denatured) |  | 2869527 |  |  |  |  |  |  |
| 11 | Other alcohols, including amyl, butyl, methyl, and propyl |  | 2869576 |  |  |  |  | \| | ! |
| 12 | Toluene and xylene |  | 2865194 | Thousand pounds |  |  |  | I | I |
| 13 | Phenol |  | 2865137 |  | 100\% |  |  | । | ! |
| 14 | Ortho and para-xylene |  | 2865905 |  | $\downarrow$ |  |  | । |  |
| 15 | Benzol (benzene) |  | 2865525 |  | $100 \% \mathrm{C}_{6} \mathrm{H}_{6}$ |  |  | ! | । |
| 16 | Tar, crude |  | 2865533 | Short tons |  |  |  | 1 1 1 | ! |

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 - Continued

| $\begin{aligned} & \dot{2} \\ & \text { Z } \\ & \stackrel{ \pm}{3} \end{aligned}$ | Materials, parts, and supplies(A) |  | Census material code <br> (B) | Unit of measure for quantities <br> (C-1) | Basis(C-2) | Consumption of purchased materials and of materials received from other establishments of your company |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Quantity <br> (D) |  |  | Cost, including delivery cost (freight-in) <br> (E) |  |  |
|  |  |  | $\begin{array}{\|r\|l\|} \hline 574 \\ \hline \text { Millions } \\ \hline \end{array}$ |  |  | Thousands | $\begin{aligned} & \hline \\ & \text { Dollars } \end{aligned}$ |
| 17 | Other cyclic crudes and intermediates |  |  | 2865053 |  |  |  | \$ | $\begin{array}{ll} \hline 1 & 1 \\ 1 & 1 \end{array}$ |  |
| 18 | Acetone (natural and synthetic) |  | 2869709 |  |  |  |  | , |  |
| 19 | Other synthetic organic chemicals, n.e.c. |  | 2860997 |  |  |  |  |  |  |
| 20 | HYDROCARBONS USED AS RAW MATERIALS OR <br> FEEDSTOCKS (Do not include fuel or energy reported in item 10c) | Natural gas | 1311521 | Million cubic feet |  |  |  | । | , |
| 21 |  | Ethane | 2911A1 3 | Thousand pounds |  |  |  | I |  |
| 22 |  | Ethylene | 2911A2 1 |  |  |  |  | 1 |  |
| 23 |  | Propane | 2911A3 9 |  |  |  |  | ! |  |
| 24 |  | Propylene | 2911A4 7 |  |  |  |  | । |  |
| 25 |  | Butane and iso-butane | 2911A5 4 |  |  |  |  |  |  |
| 26 |  | Butylene and iso-butylene | 2911A6 2 |  |  |  |  |  |  |
| 27 |  | Other | 1900125 |  |  |  |  |  |  |
| 28 | Sulfur |  | 1479013 | Long tons |  |  |  | $1$ |  |
| 29 | Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding plastics sheets, rods, and other shapes |  | 2821049 | Thousand pounds |  |  |  | $\begin{array}{ll}1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1\end{array}$ | ! |
| 30 | Agricultural products (crude) including flowers, grains, seeds, herbs, etc. |  | 0191015 |  |  |  |  | 1 |  |
| 31 | Parts and attachments for machinery and equipment |  | 3559119 |  |  |  |  | $!$ | $!$ |
| 32 | Paperboard containers, boxes, and corrugated paperboard |  | 2650018 |  |  |  |  | I |  |
| 33 | Metal containers |  | 3400017 |  |  |  |  | ! | ! |
| 34 | Cost of all other materials and components, parts, containers, and supplies consumed . . . Describe the three principal materials, etc., included in this value. |  | 9700998 |  |  |  |  | 1 | 1 |
|  |  |  |  |  |  |  |  | $\begin{array}{ll} \hline 1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{array}$ |  |
| 35 | TOTAL <br> Sum of li item 10, | 1-34 should equal ne a |  |  |  |  | \$ | 1 1 | ! |

Item 18A - Not applicable to this report

## If not shown, please enter your 11-digit Census File Number

 from the address label on page 1
## INSTRUCTIONS

1. 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 the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.
2. 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.
3. 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 93000008.
4. 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 99989006 , "Resales."
5. Detailed Data Reported Eleswhere - Items denoted by an asterisk (*) require totals for groups of products covered in the Current Industrial Reports (CIR). If you report on the CIR form the sum of the detailed CIR products should equal the total reported on this census form.

NOTE - Only CIR totals are requested; do not duplicate detail reported on the CIR surveys.


CONTINUE WITH ITEM 18B ON PAGE 8


ITEM 18B - PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued


CONTINUE ON PAGE 10

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

| $\begin{aligned} & \dot{0} \\ & \text { 乙 } \\ & \stackrel{\oplus}{\leftrightharpoons} \\ & \hline \end{aligned}$ | Products and services |  | Census product code | Products shipped and other receipts, including interplant transfers |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Value, f.o.b. plant (E) |
|  |  |  | $584$ <br> Millions | Thou- I sands I Dollars |
| 66 | Lubricating and similar oils, including hydraulic fluids, quenching and cutting oils, transformer oils, and liquid rust preventatives |  |  | 29920212 | \$ | $1$ |
| 67 | ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT | 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. |  | 18 |  |  |
| 68 |  |  | 26 |  | $\begin{array}{ll} 1 \\ 1 & 1 \\ 1 \end{array}$ |
| 69 |  |  | 34 |  | $\begin{array}{ll} 1 & 1 \\ i & 1 \end{array}$ |
| 70 | RECEIPTS FOR CONTRACT WORK |  | 93000008 |  | $1$ |
|  |  | Describe below products worked on and kind of work. |  |  |  |
| 71 | $\begin{aligned} & \hline \text { MISCELLA- } \\ & \text { NEOUS } \\ & \text { RECEIPTS } \end{aligned}$ | Sales of scrap, refuse, sold electricity, and other miscellaneous receipts (including receipts for repair work, etc.) | 99980005 |  | 1 1 <br> 1 1 <br> 1 1 <br> 1 1 <br> 1 1 |
| 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. | 99989006 |  | 1 1 <br> 1 1 <br> 1 1 <br> 1 1 |
| 73 | TOTAL v Sum of lin | alue of shipments and other receipts es $1-72$, column (E) | 77000008 | \$ | $\begin{array}{ll} \hline 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{array}$ |

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.


