

INDUSTRIAL INORGANIC CHEMICALS
(EXCEPT INDUSTRIAL GASES)

NOTE: This is the first sheet of the 1977 Census of Manufactures form. PLEASE READ INSTRUCTION MANUAL.

110	1	2	3	4	5	6	7	8	111	1	2	3	4	5	6	7	8
ITEM 1A a. Is this establishment located in the State, county, and place shown below? (If blank or incomplete, please complete (1) through (4).)																	
1 ☐ YES - SKIP to part b 2 ☐ NO - Correct or complete lines (1) through (4)																	
(1) Number and street 4500 WEST FIFTEENTH ST																	
(2) City, village, or other place CHICAGO IL 60623																	
(3) County COOK (4) If you corrected lines 1, 2, 3, give year moved to new location 19																	
b. Type of municipality indicated in 1Aa(2) 1 ☒ City 4 ☐ Borough 7 ☐ Other - Specify 2 ☐ Town 5 ☐ Township 3 ☐ Village 6 ☐ Unincorporated 8 ☐ Don't know																	

RETURN TO Bureau of the Census 1201 East Tenth Street Jeffersonville, Indiana 47132	
In correspondence pertaining to this report refer to this Census File Number (11 digits)	Employer Identification Number
CFN 8120050005 6 LA EI 13-0430690 9 54 00 281600 7 00100 28A 33 031 02 14 U 50 AMERICAN CYANAMID COMPANY MAC GREGOR LEAD PLANT 4500 WEST FIFTEENTH ST CHICAGO IL 60623	
YOUR FILE COPY (Please correct any error in name and address including ZIP code)	

ITEM 1B Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?	(9-digits)
☐ YES ☐ NO - Enter current EI number	108

ITEM 1C Mark (X) the ONE box which best describes this establishment during 1977	109
☐ Individual proprietorship ☐ Partnership ☐ Corporation (Do not mark if any form of cooperative association)	☐ Cooperative association (corporate or non-corporate) ☐ Other - Specify

NOTE: Figures for dollars, man-hours, KWH should be rounded to thousands. However, you may enter figures to nearest dollars. Carefully enter your figures in the correct columns, e.g., if payroll is \$1,125,628, report either:

Complete each item, enter "0" when appropriate.		1977			1976			Complete each item, enter "0" when appropriate.		1977			1976		
Key	1977 Number	1976 Number	Key	1977	1976	Key	1977	1976	Key	1977	1976	Key	1977	1976	
ITEM 2 - Number of employees															
Number of production workers during pay period including the 12th of month															
a. March	301	21	21												
b. May	302	20	21												
c. August	303	21	23												
d. November	304	22	23												
e. Sum of lines a-d	305	84	88												
f. Average number (Divide line e by 4)	306	21	22												
g. All other employees (pay period of March 12)	307	10	9												
h. TOTAL (Item 2)	308	31	31												
ITEM 3A - Annual payroll															
a. Production workers' wages	309	243	219												
b. All other salaries and wages	310	174	157												
c. TOTAL (Item 3A)	311	417	372												
ITEM 3B - Employer's costs for fringe benefits (supplemental labor costs) (Exclude from Items 3A and 3C)															
a. Legally required including Social Security	312		27												
b. Payments for voluntary programs	313		32												
c. TOTAL (Item 3B)	314		59												
ITEM 3C - First quarter payroll Total payroll for the first quarter (Jan.-March)															
	315	111	86												
ITEM 4 - Plant hours worked by production workers															
a. January through March	316	10	10	9											
b. April through June	317	10	10												
c. July through September	318	10	10												
d. October through December	319	10	10												
e. TOTAL (Item 4)	320	40	39												
ITEM 5 - Cost of materials and services used															
a. Cost of materials, parts, components, containers, etc., used	321	2717	2699												
b. Cost of products bought and sold as such	322														
c. Cost of fuels consumed for heat or power (See Item 12)	323	17	81												
d. Cost of purchased electricity (See Item 6)	324	68	67												
e. Cost of contract work done for you by others	325														
f. TOTAL (Item 5)	326	3872	3872												
ITEM 6 - Quantity of electricity															
a. Purchased electricity (quantity comparable to cost as reported in Item 5d)	327	2707	2278												
b. Generated electricity (gross less generating station use)	328														
c. Electricity sold or transferred to other establishments	329														
ITEM 7 - Inventories of this establishment at end of year (Report both years)															
a. Finished products	330	205	132												
b. Work-in-process	331	98	43												
c. Materials, supplies, fuels, etc.	332	99	93												
d. TOTAL (Item 7)	333	402	268												
ITEM 8 - Depreciable assets, capital expenditures, and retirements															
Refer to the instruction manual for detailed instructions.															
(a)															
a. Gross value of depreciable assets (usually original cost) at beginning of year	341	1358	523												
b. Capital expenditures for new buildings and machinery	342	282	21												
c. Capital expenditures for used buildings and machinery	343														
d. Retirements and disposition of depreciable assets (i.e., gross value of assets sold, retired, scrapped, destroyed, etc.)	344	37	29												
e. Gross value of depreciable assets at end of year (should equal lines 8a + 8b - 8c - 8d)	345	1601	495												
ITEM 9 - Depreciation charges for the year															
	346	83	20												
ITEM 10 - Rental payments															
	347	8													
ITEM 11A Total value of products shipped and other receipts															
For 1977 report the total value of products shipped and other receipts as entered in Item 11. This value should be completely comparable to the total reported for 1976. If the two figures are not comparable, please explain the reasons why in the remarks section. (Reporting by product class is not required for 1977.)															
ITEM 11B and 11C - These are breakdowns of the total value of shipments reported in Item 11A															
ITEM 11B Value of products shipped for EXPORT. Include direct exports and products shipped to exporters or others for export. Do not include products shipped for further manufacture, assembly, or fabrication in the United States.															
1 ☒ \$0-\$24,999 2 ☐ \$25,000 or more - Report the value of exports															
ITEM 11C Shipments to other domestic plants of your company for further assembly, fabrication, or manufacture.															
1 ☐ \$0-\$24,999 2 ☒ \$25,000 or more - Report the value of intracompany transfers															

CENSUS
USE

ITEM 12		5		Unit of measure for quantities		1977		Unit cost calculation	
Purchased fuels used for heat, power, and generating electricity in 1977	Kind of fuel	Code	Quantity	Cost, including delivery cost (freight-in)	Calculated unit cost	Usual range of unit costs (Please explain unusual figures in remarks)			
(a)	561 (b)	(c)	563 (d)	564 (e)	(f)	(g)			
				Mill. Thou. Dols.					
1. Coal	121005 3	Short ton				\$10-\$90 per ton			
2. Coke (including breeze)	331210 5	Short ton				40-150 per ton			
3. Distillate fuel oil (#'s 1, 2, 4, and light diesel)	291141 0	Bbl. (42 gal.)	1149	22	19.15	5-25 per bbl.			
4. Residual fuel oil (#'s 5, 6, and heavy diesel)	291151 9	Bbl. (42 gal.)				5-25 per bbl.			
5. Natural gas	131157 0	1,000 cu. ft.	24186	65	2.69	0.25-4.00 per MCF			
6. Other fuels - Specify kind	960011 5								
7. TOTAL COST OF FUELS (Should equal cost shown in Item 5c, page 1)				87					

ITEM 13 - Method of valuation for inventories reported for 1977 in Item 7		Method of valuation		Amount at end of 1977		During the calendar year 1977 did you change the method of valuing the inventories that you reported for this establishment?	
(a)		(b)		(c)		(d)	
				Mill. Thou. Dols.			
Using the inventory total reported for this establishment in Item 7d for 1977, please indicate the breakdown of that total according to the inventory valuation methods shown.		1. Cost		381		☐ YES - Indicate the nature of the changes in remarks.	
• Cost method - Report amounts on lines 1a-f.		a. First-in, First-out (FIFO)		381			
• Market basis always used - Report amounts on line 2b.		b. Last-in, First-out (LIFO)		382			
• Lower of cost or market - Report amounts valued at cost on lines 1a-f according to the applicable methods and the amount at market on line 2a.		c. Average cost		383			
		d. Specific or actual cost		384			
		e. Standard cost		385		402	
		f. Other - Specify		386			
		2. Market		387		☒ NO	
		a. Market used for valuation because market lower than cost		388			
		b. Market always used for valuation		389			
		7. TOTAL (Equals the total reported in Item 7d for 1977)		390		462	

ITEM 14		1977		ITEM 15		1977	
Cost of purchased services (See Instruction Manual)		Key		Breakdown of machinery and equipment expenditures by type reported in Item 8b, col. d (See Instruction Manual)		Key	
		Mill. Thou. Dols.				Mill. Thou. Dols.	
1. Repair of buildings and other structures	390			1. Automobiles, trucks, etc., for highway use	393		
2. Repair of machinery	391	36		2. Computers and peripheral data processing equipment	394		
3. Cost of purchased communication services (telephone, telegraph, etc.)	392	9		3. All other expenditures for new machinery and equipment	395	281	
TOTAL (Should be the same as Item 8b, column d)				281			

ITEM 16A: Status of this establishment during 1977		Enter figures only		Enter figures only	
(Be sure to indicate the date of any change.)		Mo. Day Year		Mo. Day Year	
1. ☒ No change in operator or operations					
2. ☐ Reorganized - Complete report for full year and describe type of change in remarks.					
3. ☐ Started new business (newly constructed or completely equipped when started)					
4. ☐ Establishment closed (no new owner or operator), dismantled, abandoned, or destroyed on					
5. ☐ Establishment idle or inactive but still owned					
6. ☐ Establishment was acquired or leased from another company					
7. ☐ Establishment sold or leased to another company					
8. ☐ Building only acquired					
9. ☐ Complete plant acquired (building, machinery, and equipment)					
Name of former operator					

ITEM 16B - Not applicable to this report.																					
ITEM 16C CHECKS The Bureau of the Census reviews your report for omissions, inconsistencies, and unusual ratios. To save your future correspondence about these problems, please make the following checks before returning your report. (1) Review the report carefully to see that no items are omitted for the year being covered. (2) Calculate and enter figures for the four "reasonableness" checks below, and review the results. (3) Correct your report for any errors you find and explain unusual figures in remarks. For most manufacturing establishments, the figures computed usually fall within the ranges indicated.																					
<table border="1"> <thead> <tr> <th>"Reasonableness" checks</th> <th>Calculation required for each check</th> <th>Figures for survey year</th> <th>Usual range</th> </tr> </thead> <tbody> <tr> <td>a. Average hourly wages per production worker</td> <td>Item 3Aa (Production workers' wages) ÷ Item 4e (Total hours worked)</td> <td>6.08 \$/hr.</td> <td>\$2 - \$10</td> </tr> <tr> <td>b. Hours worked per year per production worker</td> <td>Item 4e (Total hours worked) ÷ Item 2f (Average number of production workers)</td> <td>1905 hrs./yr.</td> <td>1000 - 3000</td> </tr> <tr> <td>c. Salaries and wages per dollar of shipments</td> <td>Item 3Ac (Total payroll) ÷ Item 11A (Total value of shipments)</td> <td>.08</td> <td>.05e - .95e</td> </tr> <tr> <td>d. Materials cost per dollar of shipments</td> <td>Item 5f (Total materials cost) ÷ Item 11A (Total value of shipments)</td> <td>.71</td> <td>.05e - .95e</td> </tr> </tbody> </table>		"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range	a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ Item 4e (Total hours worked)	6.08 \$/hr.	\$2 - \$10	b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ Item 2f (Average number of production workers)	1905 hrs./yr.	1000 - 3000	c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ Item 11A (Total value of shipments)	.08	.05e - .95e	d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ Item 11A (Total value of shipments)	.71	.05e - .95e
"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range																		
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ Item 4e (Total hours worked)	6.08 \$/hr.	\$2 - \$10																		
b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ Item 2f (Average number of production workers)	1905 hrs./yr.	1000 - 3000																		
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ Item 11A (Total value of shipments)	.08	.05e - .95e																		
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ Item 11A (Total value of shipments)	.71	.05e - .95e																		
e. Is the total for Value of Shipments (Item 11A) greater than the sum for payroll (Item 3Ac) plus total Cost of Materials, etc. (Item 5f)? ☒ YES ☐ NO - Explain in remarks																					
Remarks - Please use this space for any explanations that may be essential in understanding your reported data.																					

CONTINUE ON PAGE 3

FORM MC-28A (Rev.) U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES
INDUSTRIAL INORGANIC CHEMICALS
(EXCEPT INDUSTRIAL GASES) - Continued

PLEASE ENTER THIS ESTABLISHMENT'S
11-DIGIT CENSUS FILE NUMBER

812003 00033

Name of establishment (Same as address box)

American Cyanamid Co.

Item 17A WATER USE DURING 1977

1. What was the total quantity of water intake for this establishment for use in the production process and auxiliary operations (such as cooling and condensing, sanitary services, and boiler feed) during the calendar year 1977?

Mark (X) one box only

1 ☐ Under 1 million gallons
2 ☐ 1-9 million gallons

3 ☒ 10-19 million gallons
4 ☐ 20-49 million gallons

5 ☐ 50-99 million gallons
6 ☐ 100 million gallons or over

2. Did you recirculate any water during the calendar year 1977?

1 ☐ YES

2 ☒ NO

Item 17B CONSUMPTION OF SELECTED MATERIALS DURING 1977

Instructions - Please read

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 15. Please review the entire list and report separately for each item consumed. The materials, parts, and supplies consumed at this establishment which are not prelisted should be described and reported in the "All other materials, etc." line at the end of this section. If your consumption of a listed material is valued at less than \$10,000, enter an (X) in column (E) and include the value with "All other materials, etc." Census material code 970099 B. If your book records do not contain information as requested, 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. This includes purchases, transfers from other establishments of your company, and withdrawals from inventories.

Materials transferred to you from other plants within your company should be assigned their full economic value, as assigned by the shipping plant, plus cost of freight and handling charges.

3. **CONTRACT WORK** - Materials purchased for use by others making products for you on a contract basis should be included. Amounts paid to other companies for such contract work should be reported in item 5a, and should include freight in and out. Materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

4. **MATERIALS PRODUCED AND CONSUMED** - Materials, parts, and supplies which are produced and consumed in the same establishment in the manufacture of products should be reported in column (C-1). Please report only the quantities of these materials produced and consumed. If the specific input materials used to produce these items are listed, the quantity and value should be reported in columns (C-2) and (D). If not, the cost should be included in the "All other materials, etc." line, Census material code 970099 B.

Line number	Materials, parts, and supplies (A)	Census material code (B-1)	Unit of measure for quantities (B-2)	Basis (B-3)	Quantities produced and consumed (C-1)	Materials purchased and consumed				If you consumed less than \$10,000 of the item, enter (X) (E)
						Quantity (C-2)	Cost, including delivery cost (freight-in) (D)			
							(D)			
							574 Millions	575 Thousands	576 Dollars	
						000	000	000		
1	ACIDS, EXCEPT SPENT ACIDS									
2	Hydrochloric acid	281944 9		100% HCl						
3	Hydrofluoric acid	281946 4		100% HF						
4	Nitric acid	287311 5		100% HNO ₃						
5	Phosphoric acid	287410 5		100% P ₂ O ₅						
6	Sulfuric acid	281941 6		100%						
7	Ammonia, synthetic	287312 9		100% NH ₃						
8	Phosphorus, elemental	281211 3		100% P						
9	Sodium carbonate (soda ash)	281228 7		58% Na ₂ CO ₃						
10	Sodium hydroxide (caustic soda)	281236 6		100% NaOH						
11	Acetylene and other industrial gases compressed and liquefied, including argon, carbon dioxide, nitrogen, nitrous oxide, etc.	281301 2								
12	Salt in brine	289911 0	Short tons							
13	Alcohol, ethyl (pure and denatured)	286952 7								
14	Other alcohols, including amyl, butyl, methyl, and propyl	286957 6	Thousand gallons							
15	Aniline	286511 1		100%						
16	Toluene and xylene	286519 4		100%						
17	Formaldehyde	286923 8		100% HCHO						
18	Butadiene	291167 5	Thousand pounds	100%						
19	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding plastics sheets, rods, and other shapes	282104 9								
20	CRUDE MATERIALS									
21	Bauxite	105101 0	Short tons							
22	Phosphate rock	147501 1	Short tons							
23	Pyrites	147901 3	Long tons							
24	Sulfur	147701 7	Long tons							
25	Sulfuric acid sludge (decomposition acid)	281932 4	Short tons							
26	Zinc and zinc-base alloy refinery shapes	333148 1	Short tons							
27	Iron and ferrous alloy ores, including tungsten, chromite, manganese, molybdenum, and cobalt	100107 2								
28	Nonferrous metal ores, including copper, mercury, vanadium, titanium, platinum, etc.	100207 0								
29	Crude nonmetallic minerals, including limestone, clay, gypsum, talc, etc., but excluding crude chemical nonmetallic minerals	140107 4								
30	Crude chemical nonmetallic minerals, including barite, borate, potash, fluorspar, rock salt, etc., but excluding phosphate rock and pyrites	147007 9								
31	USED AS RAW MATERIALS									
32	Coke, including breeze	331210 5	Short tons							
33	Natural gas (Do not report fuel or energy use)	131152 1	Million cu. ft.							
34	Other materials		Thousand pounds							

Item 17B CONSUMPTION OF SELECTED MATERIALS DURING 1977 - Continued										
Line number	Materials, parts, and supplies (A)	Census material code (B-1)	Unit of measure for quantities (B-2)	Basis (B-3)	Quantities produced and consumed (C-1)	Materials purchased and consumed				If you consumed less than \$10,000 of the item, enter (X) (E)
						Quantity (C-2)	Cost, including delivery cost (freight-in) (D)			
							574 Millions	575 Thousands	576 Dollars	
33	OTHER PARTS, MATERIALS AND ACCESSORIES									
34	Parts and attachments for machinery and equipment	355911 9								
35	Paperboard boxes and containers	265001 8								
36	Metal containers	340001 7								
37	Cost of all other materials and components, parts, containers, and supplies consumed, including those values checked in column (E). Describe the three principal materials, etc., included in this value.	970099 8							3 640	
38	<i>See Lead</i> <i>Calcium Hydroxide</i> <i>Calcium Sulfate</i>									
39	TOTAL Sum of lines 1-36 should be same as item 5a.								3 717	

Item 18 PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1977

Instructions - Please read.

1. GENERAL - The products and services listed below are those that are generally made in your industry. Please review the entire list before completing the inquiry. If you produce products that are not prelisted, they should be described and reported in the "All other products" section at the end of item 18. Please do not combine product lines.

Products for which quantity data are requested should be reported in the unit of measure specified.

If your book records do not contain information as requested, reasonable estimates are acceptable.

2. VALUATION OF PRODUCTS - The value of the products shipped and services performed should be based on the net selling value, i.e., plant, after discounts and allowances, and exclusive of freight charges and excise taxes.

When transferring products to other establishments within your company, the shipping plant 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. PRODUCTS BOUGHT AND SOLD WITHOUT FURTHER MANUFACTURE - Products which you purchase from another establishment and use in your manufacturing, processing or assembling of products made in this establishment should be reported as "Resales," Census product code 99999 00 5.

4. CONTRACT WORK

a. Products made by others for you from your materials: Report such products on the specific lines of this section as if they were made in this establishment.

b. Products that you made from materials owned by others: Report the amount that you received for "commission or contract receipts" on line 56, Census product code 93000 00 8. Do not report on the specific product lines for these products.

5. DETAILED DATA REPORTED ELSEWHERE - This report requires totals for groups of products covered in more detailed Current Industrial Reports (CIR) and International Trade Commission (ITC) schedules. If you report on the CIR or ITC forms, the value of shipments for items designated by an asterisk should approximate the sum of the detail reported on these forms.

a. Current Industrial Reports (CIR) - The groupings of inorganic chemicals for which shipment values are to be reported on lines 1-21, 27 below correspond to totals of groups of products covered in more detail on annual and monthly Bureau of the Census "Current Industrial Reports" surveys for 1977. The related report of the Current Industrial Reports is shown in column (B-3), and the related product codes in column (B-4). Report the total value of these lines in column (E).

b. International Trade Commission Schedules - The groupings of synthetic organic chemicals for which shipment values are to be reported on lines 42-49 below, correspond to similar classification groupings for which data are collected by the International Trade Commission. The related Section of the International Trade Commission Report is shown in column (B-3). Commercial shipments reported for this plant (column (E) minus column (G)) represent product groupings which combined with shipments for other plants of your company should, in most instances, approximate the sales figures reported to the International Trade Commission.

NOTE - Detail breakdowns for lines 44 and 45 reflect revisions to the U.S. International Trade Commission schedule, "Synthetic Organic Chemicals," sections XIV and XV, as introduced for 1976.

6. SPECIAL INSTRUCTIONS - Column (E), Lines 42-49 - Do not include chemicals produced and used at this plant in the manufacture of such products as antifreeze, pesticide preparations, etc., should be reported in column (E) on the specified preprinted product lines or, if not separately listed, on lines 50-54.

Line number	Products and services (A)		Census product code (B-1)	Corresponds to the sum reported in 1977 on -		Products shipped and other receipts (E)		
				Census form (B-3)	Codes (B-4)	Value, f.o.b. plant		
						584 Millions	585 Thousands	586 Dollars
1	ALKALIES AND CHLORINE	Chlorine, compressed or liquefied*	28121 00 2	MA-28E.1	2812111-2812115			
2		Sodium carbonate (soda ash)*	28122 00 0	MA-28E.1	2812231-2812251			
3		Sodium hydroxide (caustic soda)*	28123 00 8	MA-28E.1	2812351-2812377			
4		Other alkalies*	28124 00 6	MA-28E.1	2812421-2812490			
5	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.	Chlorine and other inorganic bleaching compounds (except household bleaches)	28199 11 5	MA-28E.1	2819941			
6		Calcium hypochlorite (high test)*						
7		Other industrial bleaches*	28199 15 6	MA-28E.1	2819994-2819995			
8		Sulfuric acid*	28193 00 1	MA-28B	2819311-2819351			
9		Inorganic acids, except nitric, sulfuric, and phosphoric*	28194 10 8	MA-28E.1	2819411-2819471, 2819489			
10		Aluminum oxide*	28195 00 6	MA-28E.1	2819511			
11		Other aluminum compounds*	28196 00 4	MA-28E.1	2819611-2819687			
12		Potassium and sodium compounds (except bleaches, alkalies, and alums)*	28197 00 2	MA-28E.1	2819713-2819798			
13		Chemical catalytic preparations*	28198 00 0	MA-28E.1	2819811			
14		Other inorganic chemicals, n.e.c.*	28199 30 5	MA-28E.1	2819901-2819998			
15	INDUSTRIAL GASES	Acetylene*	28132 00 9	MA-28E.2	2813200			
16		Carbon dioxide*	28133 00 7	MA-28E.2	2813311-2813331			
17		Nitrogen*	28135 00 2	MA-28E.2	2813500			
18		Oxygen*	28136 00 0	MA-28E.2	2813600			
19		Other elemental gases, and compressed and liquefied gases, n.e.c. (including argon and hydrogen)*	28137 00 8	MA-28E.2	2813711, 2813715, 2813720, 2813750, 2813771, 2813798			
20		Household liquid bleaches (sodium hypochlorite, etc.)*	28422 43 4	MA-28E.1	2819243			
21		Phosphoric acid*	28741 00 7	MA-28E.1	2874181-2874187			

PLEASE ENTER THIS ESTABLISHMENT'S
11-DIGIT CENSUS FILE NUMBER

Name of establishment (Same as address box)

Products and services:		Census product code	Unit of measure for quantities	Quantity produced for all purposes	Products shipped and other receipts		
* Item corresponds to products reported on Current Industrial Reports or International Trade Commission Schedules		501 (B-1)	502 (B-2)	503 (C)	Quantity (D)	Value, f.o.b. plant (E)	
(A)		501 Millions	502 Thousands	503 Dollars	504 Millions	505 Thousands	506 Dollars
INORGANIC PIGMENTS (Report reduced colors on C.P. basis on lines 22-39) Titanium pigments, composite and pure (100% TiO ₂)		28161 11 5					
OTHER WHITE OPAQUE PIGMENTS (28162)	White lead, basic carbonate and sulfate, excluding white lead in oil	28162 13 9	Short tons	14590	6583	54406	
	Zinc oxide pigments	28162 21 2					
	Lead-free zinc oxide	28162 25 3					
	Leaded zinc oxide	28162 25 3					
All other white opaque pigments, including antimony oxide, lithopone, and pure zinc sulfide - Specify kind		28162 98 0					
CHROME COLORS AND OTHER INORGANIC PIGMENTS (28163)	Chrome colors (corresponds to the sum of codes 2816311-2816319 as reported on Census Form MA-28E-1, Shipments and Production of Inorganic Chemicals for 1977)*	28163 10 3					
	White extender pigments, including barytes, blanc fixe, and whiting	28163 27 7	Short tons				
	Color pigments other than chrome colors and lakes and toners	28163 31 9					
	Iron oxide pigments	28163 31 9	Thousands				
	Colored lead pigments	28163 41 8					
	Litharge	28163 45 9					
	Iron blues (prussian blue, millori blue, etc.)	28163 51 7					
	Pearl essence	28163 61 6					
	Carbon blacks (bone and lamp), excluding furnace and channel carbon black and charcoal - Specify kind	28163 88 9					
	Cadmium sulfide pigments	28163 89 7					
Ceramic colors - Specify chemical composition		28163 91 3					
Copper oxide pigments		28163 90 5					
All other color pigments, n.e.c.	Containing lead	28163 94 7	Gallons				
	Not containing lead	28163 96 2					
Adhesive and other preparations, permanent type		28995 35 5					
Natural gas liquids (natural gasoline, plant condensate, liquefied petroleum gases, ethane, isopentane, and drip from lines)		13212 01 4	Thousands barrels				

Products and services		Census product code	Corresponds to 1977 International Trade Commission Chemical Report, Section —	Products shipped and other receipts, including interplant transfers			Transfers to other plants of your company			
				Quantity	Value, f.o.b. plant (E)			Value, f.o.b. plant (G)		
					586 Millions	Thousands	Dollars	586 Millions	Thousands	Dollars
(A)		591 (B-1)	593 (B-3)	(D)						
Cyclic (coal tar) intermediates, total*		28651 11 5	III							
Synthetic organic pigments, lakes, and toners, total*		28653 11 1	V							
Miscellaneous end-use chemicals and chemical products (excluding urea) total*		28696 11 0	XIV							
Miscellaneous cyclic and acyclic chemicals and chemical products, total*		28697 13 4	XV							
SYNTHETIC ORGANIC CHEMICALS, N.E.C. (28693)	Plasticizers*	28693 51 3	XI							
	All other synthetic organic chemicals, n.e.c. — Specify kind	28693 00 0								
Pesticides and other synthetic organic agricultural chemicals, except preparations — Report preparations on lines 80–83.*		28694 11 5	XII							
Thermoplastic resins and plastics materials (including resins for protective coatings (28213))*		28213 00 7	VII							
ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	Describe and report separately for each product whose value was \$50,000 or more and not listed above — Specify unit of measure for quantity									
	Report a single total value for your remaining products not listed above.	77777 00 1								
CONTRACT WORK	Receipts for work done for others on their own materials. Describe products worked on and kind of work.	93000 00 8								
MISCELLANEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8								
	Receipts for research and developmental work	99960 41 9								
	Other miscellaneous receipts (including receipts for repair work, etc.)	99980 94 9								
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 5b.	99989 00 6								
TOTAL										

Item 19

FORCE ACCOUNT CONSTRUCTION WORKERS

Report the number and gross earnings of employees on the payroll of this establishment engaged in construction of major additions or alterations to the plant and utilized as a separate work force. Workers engaged in regular maintenance and repair operations should not be included.

5 591 1626

1. Number of employees. These employees should also be included in the figures reported in item 2

592			Number
			0
593	Thousands	Dollars	
Millions	000	000	000
		0	

2. Gross earnings paid in the calendar year. These earnings should also be included in the figures reported in item 3A

Items 20 and 21 - Not applicable to this form

Remarks - Please use this space for any explanation 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

Telephone

Area code

Number

Extension

Period covered

From: Mo. Day Year

To: Mo. Day Year

Address - Number and street

Signature of authorized person

City

State

ZIP code

Title

Date