

PENALTIES FOR FAILURE TO REPORT DUE DATE: FEBRUARY 15, 1973

FORM MA-100 (2501)

U.S. DEPARTMENT OF COMMERCE
SOCIAL AND ECONOMIC STATISTICS ADMIN.
BUREAU OF THE CENSUS

1972 ANNUAL SURVEY OF MANUFACTURES

MC-28A

INDUSTRIAL INORGANIC & ORGANIC CHEMICALS
(EXCEPT INDUSTRIAL GASES)

For 1972 this is the first sheet of the 1972 Census of Manufactures form

112 1 2 3 4 5 6 7 8 111 1 2 3 4 5 6 7 8

THIS IS YOUR FILE COPY

a. Is this establishment still located in the State, county, and place shown below? (If blank or incomplete, please complete (1) through (4).)

☐ YES - Skip to part b ☐ NO - Correct or complete lines (1) through (4)

1. Number and street

4500 WEST FIFTEENTH ST

2. City, village, or other place

CHICAGO

3. County

ILL

4. If you corrected lines 1, 2, or 3, give year moved to new location

19

b. Is this establishment physically located WITHIN THE LEGAL BOUNDARIES of the city, village, or other place?

☐ YES ☐ NO

Be sure to read Instruction Manual before completing report.

Complete each item, enter "0" when appropriate

Key 1972

a. March 21

b. May 21

c. August 23

d. November 22

e. Sum of lines a - d 87

f. Average number (Divide line e by 4, omit fractions) 22

g. All other employees' pay period including March 1972 11

h. TOTAL (line f and g) 33

i. Total wages and salaries 159

j. All other salaries and wages 119

k. TOTAL (line i and j) 278

l. Legally required expenditures, incl. Social Security contributions 361

m. Payments for voluntary programs 362

n. TOTAL (line l and m) 363

o. Legally required expenditures, excl. Social Security contributions 364

p. Social Security taxes 365

q. TOTAL (line o and p) 366

r. October through December 1972 10

s. TOTAL (line r) 11

t. Cost of materials, parts, components, containers, etc., consumed 2295

u. Cost of products bought and resold as such 3

v. Cost of fuel consumed 21

w. Cost of purchased electricity 41

x. Cost of contract work done for you by others on your materials 225

y. TOTAL (line t - x) 2350

z. Quantity and value of products shipped and other receipts

Product classes of this establishment

If printed descriptions are incorrect, please revise. Describe all additional products. If more lines are needed, use item 9 - Continued, on page 2.

a. OTHER WHITE INORGANIC PIGMENTS, EXCEPT

b. TITANIUM DIOXIDE

c.

d.

e.

f.

g.

h.

i.

j.

k.

l. Enter TOTAL from page 2, item 9 - Continued, line e

m. Receipts for work or services you performed for others on their materials - Describe

n. Miscellaneous receipts (repair work, installation, sales of scrap, etc.) - Describe

o. Sales of products bought and resold without further manufacture, processing, or assembly (Report cost in item 5b)

p. TOTAL (line 9)

310

201 TAB

2214393

281600

203 AREA

33 016

204 INFL

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205 CCS

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Form Approved: O.M.B. No. 41-571102
NOTICE: Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

If filing by due date causes an undue burden, a request for an extension of time should be sent to the return address listed on the left.

In correspondence pertaining to this report refer to this Census File Number (11 digits)

Employer Identification Number

812003 0003 6 25 13-0430890 9

2214393 281600 7 00100 28A

33 016 40

AMERICAN CYANAMID COMPANY

MAC GREGOR LEAD PLANT

4500 WEST FIFTEENTH ST

CHICAGO IL 60623

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

c. Is the Employer Identification (EI) Number printed in the address box the SAME as that used for this establishment on your latest Employer's Quarterly Federal Tax Return; Treasury Form 941?

☐ YES ☐ NO - Enter currently assigned EI No. here

Be sure to read Instruction Manual before completing report. Report items 3-11 in THOUSANDS (Example: If total payroll is \$215,166, enter \$215).

Complete each item, enter "0" when appropriate

Key 1972

a. Finished products 335 73 331 197

b. Work-in-process 336 10 332 9

c. Materials, supplies, fuels, etc. 337 106 333 192

d. TOTAL (line 6) 338 189 334 390

e. New structures and new additions to this plant (Exclude land) 341 37 7

f. New machinery and new equipment 342 81 24

g. Used plant and used equipment 343

h. TOTAL (line 7) 344 118 31

i. Purchased electricity (cost is reported in 5d) 345 202 4 1123

j. Generated electricity (gross less generating station use) 346

k. Electricity sold or transferred to other establishments 347

l. Gross value of depreciable assets (Excluded land) 348 330 349 297

m. Machinery and equipment 353 811 7 35

n. TOTAL (line 10) 354 1341 1232

o. Buildings and other structures (Exclude land) 355

p. Machinery and equipment 356 6 2

q. TOTAL (line 11) 357 6 2

r. Quantity and value of products shipped and other receipts

Product classes of this establishment

If printed descriptions are incorrect, please revise. Describe all additional products. If more lines are needed, use item 9 - Continued, on page 2.

a. OTHER WHITE INORGANIC PIGMENTS, EXCEPT

b. TITANIUM DIOXIDE

c.

d.

e.

f.

g.

h.

i.

j.

k.

l. Enter TOTAL from page 2, item 9 - Continued, line e

m. Receipts for work or services you performed for others on their materials - Describe

n. Miscellaneous receipts (repair work, installation, sales of scrap, etc.) - Describe

o. Sales of products bought and resold without further manufacture, processing, or assembly (Report cost in item 5b)

p. TOTAL (line 9)

77000 8 3586 1740

N14644

Continued Quantity and value of products shipped and other receipts (\$000)	Additional products of this establishment (Describe) (a)	Product class code (See manual) (b)	Unit of quantity (c)	1972	
				Quantity (d)	Value (\$000) (e)
		561		562	563
		561		562	563
		561		562	563
		561		562	563
TOTAL (Transfer to page 1, Item 9, line 1)					
Not applicable this year					
1.12 MARK ONE BOX ☐ No change in operator or operations ☐ Reorganized - Describe in "Remarks," e.g., partnership change ☐ Started new business - Date _____ ☐ This establishment was purchased or leased from another company - Complete the following information -					
Name of former operator or owner		Address (Number, street, city, State, ZIP code)		EI Number (9 digits)	
				Date	
☐ This establishment was sold or leased to another company - Complete the following information -					
Name of new operator or owner		Address (Number, street, city, State, ZIP code)		EI Number (9 digits)	
				Date	
NOTE - Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a Zero "0"? ☐ YES - Complete item 14A, e through d ☒ NO - Skip to item 15 below					
1.13 Is this company owned or controlled by another company? ☐ YES - Complete the following information ☒ NO					
Name, address, and Employer Identification Number of owning or controlling company		Activity of owning or controlling company (Describe, e.g., manufacturing, retail, wholesale, etc.; and chief products sold)			
Employer Identification Number					
1.14 Does this company own or control any other companies? ☐ YES ☒ NO					
1.15 Does this company have any manufacturing plants under construction but not in operation at the end of the year? ☐ YES ☒ NO					
1.16 Complete only if item 1.14 b or c is marked "YES."	Name, address, and Employer Identification Number	Activity (Describe, e.g., manufacturing, retail, wholesale, etc., and chief products sold)	1972 payroll and sales (\$000)		
	Employer Identification Number		Payroll \$	Sales \$	Are payroll and sales included on page 1 of this report?
	Employer Identification Number		Payroll \$	Sales \$	YES NO
	Employer Identification Number		Payroll \$	Sales \$	YES NO
CHECKS to assure a complete and accurate report The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you 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.					
"Reasonableness" checks		Calculation required for each check		Figures for 1972	
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ Item 4a (Total man-hours)		\$ 3.87		Usual range \$1 - \$10
b. Hours worked per week per production worker	Item 4a (Total man-hours) ÷ 20 ÷ Item 2f (Average number of production workers)		37 Hrs.		20 - 60
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ Item 9p (Total value of shipments)		.08		0.05 - 0.15
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ Item 9p (Total value of shipments)		.66		0.50 - 0.95
e. Is the total for Value of Shipments (item 9p) greater than the sum for Payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)? ☒ YES ☐ NO - Explain in "Remarks"					
f. Is the gross value of depreciable assets (item 10c) minus total capital expenditures (item 7d), within 5% of gross depreciable assets at the beginning of the survey year? ☒ YES ☐ NO - Explain in "Remarks"					
Remarks					

Please continue on page 3

FORM MC-28A (Rev.) (2801)	U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS 1972 CENSUS OF MANUFACTURES INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT INDUSTRIAL GASES) - Continued	PLEASE ENTER YOUR CENSUS FILE NUMBER 812003 0003 6 Name of establishment (Same as address box) <i>American Cyanamid Co.</i>	Page 3
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Item 16 - INDUSTRIAL WATER USE DURING 1972

Please indicate the total quantity of water used by this establishment during the calendar year 1972. Include both fresh and brackish water. Include water recirculated and reused. Report the total annual consumption of water; do NOT report hourly, daily, weekly, or monthly rates of consumption.

(MARK ONE BOX ONLY)

☒ Under 20 million gallons
 ☐ 20 to 99 million gallons
 ☐ 100 million gallons or more

Item 17 - CONSUMPTION OF SELECTED MATERIALS DURING 1972

Report separately for each listed material that was actually consumed or put in production during 1972.

Section I - CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS

INSTRUCTIONS

Report delivered cost of the individual items below which were consumed or put in production during 1972. (See General Instructions (item 5) for valuation.)

Include materials owned by this establishment but consumed by other establishments to make products for this establishment under contract.

(Report cost of contract work in item 5e; and the value of the products produced in item 18.)

Exclude materials owned by others used in this plant to make products for other establishments under contract or on commission. However, report receipts for this contract work in item 18.

If you consumed some of the specified material but less than \$5,000 worth of the item, enter an (X) in column (E) and include the value with "All other materials, etc." - Code 970099.

Line Number	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								
							If \$5,000 or more of the listed item was consumed -			If you consumed some but less than \$5,000 worth of the listed item, enter an (X)					
											Quantity	Cost, including delivery cost (freight-in) (D)			
							(C)	Millions	Thousands	Dollars		(E)			
000	000	000													
(A)	(B-1)	(B-2)	(B-3)	(C)	(D)	(D)	(D)	(E)							
1	INORGANIC CHEMICALS	Acids, except spent acids	Hydrochloric acid	571 281944	9	Short tons	100% HCl	572	573						
2			Hydrofluoric acid	571 281946	4	Short tons	100% HF	572	573						
3			Nitric acid	571 281911	8	Short tons	100% HNO ₃	572	573						
4			Phosphoric acid	571 281948	0	Short tons	100% P ₂ O ₅	572	573						
5			Sulfuric acid	571 281931	6	Short tons	100% H ₂ SO ₄	572	573					X	
6			Ammonia, synthetic, anhydrous	571 281912	6	Short tons	100% NH ₃	572	573						
7		Chlorine	571 281211	3	Short tons	100% Cl	572	573							
8		Phosphorus, elemental	571 281996	9	Short tons	Technical	572	573							
9		Sodium carbonate (soda ash)	571 281228	7	Short tons	58% Na ₂ O	572	573							
10		Sodium hydroxide (caustic soda)	571 281238	6	Short tons	100% NaOH	572	573							
11	ORGANIC CHEMICALS	Alcohol, ethyl (pure and denatured)	571 281852	4				572	573						
12		Other alcohols, including amyl, butyl, methyl, and propyl	571 281820	1	Thousand gallons		572	573							
13		Aniline	571 281511	6	Thousand pounds	100%	572	573							
14		Benzol (benzene)	571 281552	0	Thousand pounds	100% C ₆ H ₆	572	573							
15		Formaldehyde	571 281823	5	Thousand pounds	37% HCHO	572	573							
16		Liquefied petroleum and refinery gases for chemical feedstocks	Ethylene	571 291165	9	Thousand pounds		572	573						
17				Propane	571 291164	2	Thousand pounds		572	573					
18			Propylene	571 291166	7	Thousand pounds		572	573						
19				Other, include mixtures (Report net quantities consumed by excluding amounts returned to source)	571 291169	1	Thousand pounds		572	573					
20		Naphthalene, grades of 77.5°C. or higher	571 281555	3	Thousand pounds		572	573							
21	Nitrobenzene	571 281512	4	Thousand pounds	100%	572	573								
22	Phenol	571 281513	2	Thousand pounds	100%	572	573								
23	Phthalic anhydride	571 281514	0	Thousand pounds	100%	572	573						X		
24	Tar, crude	571 281553	8	Short tons		572	573								

Please continue on page 4

Item 17 - CONSUMPTION OF SELECTED MATERIALS DURING 1972 - Continued										Page 4
Section I - CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENT - Continued										
Line number	Materials, parts, and supplies (A)		Census material code (B-1)	Unit of measure for quantities (B-2)	Quantity (C)	Consumption of purchased materials and of materials received from other establishments of your company If \$5,000 or more of the listed item was consumed -			If you consumed more than \$5,000 worth of the listed item, enter an (X)	
						Cost, including delivery cost (freight-in) (D)				
						Millions	Thousands	Dollars		
						000	000	000	(E)	
25	CRUDE MATERIALS	Bauxite	105101	0	Short tons	572				
26		Phosphate rock	147501	1	Short tons	572				
27		Pyrites	147901	3	Long tons	572				
28		Sulfur	147701	7	Long tons	572				
29		Sulfuric acid sludge (decomposition acid)	281932	4	Short tons	572				
30		Zinc and zinc-base alloy refinery shapes	333348	1	Short tons	572				
31	USED AS RAW MATERIALS	Coke, including breeze	331210	5	Short tons	572				
32		Natural gas	131302	2	Million cu. ft.	572				
33		Parts and attachments for chemical industries machinery and equipment	355911	9		572				
34		All other materials and components, parts, containers, and supplies. . . . (List the three principal "All other materials, etc." included in the above.)	970099	8		572			2,285	
		<i>Calcium Stearate</i>								
		<i>Calcium Carbonate</i>								
35	TOTAL (Sum of lines 1-34 should be same as item 5a.)								\$ 2,285	

Section II - CONSUMPTION OF SELECTED INORGANIC AND ORGANIC CHEMICALS PRODUCED IN THIS ESTABLISHMENT AND CONSUMED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

INSTRUCTIONS

Report below the quantity of each listed item produced in this establishment and consumed in manufacturing products made in this establishment.

Quantities produced for sale as such and not for incorporation in other products should be reported in item 18.

Purchases or receipts of the items specified below should be reported only in section I.

Report quantities in the unit of measure specified in column (B-2).

Materials used to produce the items specified below should be reported in section I of item 17.

Line number	Item (A)		Census material code (B-1)	Unit of measure for quantities (B-2)	Basis (B-3)	Quantities produced in this establishment and consumed in manufacturing other products made in this establishment (F)
1	INORGANIC CHEMICALS	Acids, except spent acids	571			575
		Hydrochloric acid	281944	9	Short tons	100% HCl
2		Hydrofluoric acid	281946	4	Short tons	100% HF
3		Nitric acid	281911	8	Short tons	100% HNO ₃
4		Phosphoric acid	281948	0	Short tons	100% P ₂ O ₅
5		Sulfuric acid	281931	6	Short tons	100% H ₂ SO ₄
6		Ammonia, synthetic, anhydrous	281912	6	Short tons	100% NH ₃
7		Chlorine	281211	3	Short tons	100% Cl
8		Phosphorus, elemental	281996	9	Short tons	Technical
9		Sodium carbonate (soda ash)	281228	7	Short tons	58% Na ₂ O
10		Sodium hydroxide (caustic soda)	281238	6	Short tons	100% NaOH
11	ORGANIC CHEMICALS	Alcohols, except ethyl, including amyl, butyl, methyl, and propyl	281820	1	Thousand gallons	
12		Benzol (benzene)	281552	0	Thousand pounds	100% C ₆ H ₆
13		Formaldehyde	281823	5	Thousand pounds	37% HCHO

Please continue on page 5

FORM MC-28A (Rev.) U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS 1972 CENSUS OF MANUFACTURES INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT INDUSTRIAL GASES) - Continued	PLEASE ENTER YOUR CENSUS FILE NUMBER D 812003 0003 6	Page 5
Name of establishment (Same as address box) American Cyanamid Co.		

Item 17 - CONSUMPTION OF SELECTED MATERIALS DURING 1972 - Continued

Section II - CONSUMPTION OF SELECTED INORGANIC AND ORGANIC CHEMICALS PRODUCED IN THIS ESTABLISHMENT AND CONSUMED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT - Continued

Line No.	Item (A)	Census material code (B-1)	Unit of measure for quantities (B-2)	Basis (B-3)	Quantities produced in this establishment and consumed in manufacturing other products made in this establishment (F)
14	Liquefied petroleum and refinery gases for chemical feedstocks Ethylene	291165	Thousand pounds		578
15	Propylene	291166	Thousand pounds		578
16	Naphthalene, grades of 77.5°C. or higher	281555	Thousand pounds		578
17	Nitrobenzene	281512	Thousand pounds	100%	578
18	Phenol	281513	Thousand pounds	100%	578
19	Phthalic anhydride	281514	Thousand pounds	100%	578

Item 18 - PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1972
Please read the entire list of products and services below before answering this inquiry

INSTRUCTIONS

Report net selling value, f.o.b. plant, after discounts and allowances and exclusive of freight charges and excise taxes.

Include products made elsewhere for this establishment on a contract basis from materials supplied by this establishment. (The cost of these materials should be included in items 5a and 17.)

Exclude products made in this establishment on a contract basis from materials owned by others. Report commission or contract receipts on the appropriate line below. (Exclude materials consumed in making these items from Items 5a and 17.)

Line 87 - RESALES - Report the selling value, f.o.b. plant, of products which were resold as originally purchased and not used in further manufacturing, processing, or assembling of products made in this establishment. Report the cost of these products in item 5b.

Section I - ORGANIC CHEMICALS

INSTRUCTIONS

The groupings of synthetic organic chemicals for which shipment values are to be reported on line 1-22 below, correspond to similar classification groupings for which data are collected by the United States Tariff Commission. The related Section of the U.S. Tariff Commission Report is shown in column (B-3). Commercial shipments reported for this plant (column (E) minus column (G)) for each product grouping when combined with shipments for other plants of your company should, in most instances, approximate the sales figures reported to the U.S. Tariff Commission.

Column (E), Lines 1-22 - Do not include chemicals produced and used at this plant in the manufacture of such products as antifreeze, pesticidal preparations, etc. Products shipped as antifreeze, pesticidal preparations, etc., should be reported in column (E) on the specified preprinted product lines or, if not separately listed, on lines 81-82.

Report totals based on net selling values, f.o.b. plant. Net selling values should not include discounts, allowances, freight charges, and excise taxes.

Line number	Products and services (A)	Census product code (B-1)	Corresponds to 1972 U.S. Tariff Commission Chemical Report, Section - (B-3)	Products shipped and other receipts, including interplant transfers Quantity (D) Value, f.o.b. plant (THOUSANDS OF DOLLARS) (E)	Transfers to other plants of your company Quantity (F) Value, f.o.b. plant (THOUSANDS OF DOLLARS) (G)
1	Tar, tar crudes, and tar pitches, total	28155 11	7 I	\$ 564	\$ 566
2	Cyclic (coal tar) intermediates, total	28151 11	6 III	\$ 564	\$ 566
3	Cyclic dyes, total	28152 11	4 IV	\$ 564	\$ 566
4	Synthetic organic pigments, lakes, and toners, total	28153 11	2 V	\$ 564	\$ 566
5	Miscellaneous cyclic (coal tar) chemical products, total	28181 11	3 XIV	\$ 564	\$ 566
6	Miscellaneous acyclic chemicals and chemical products, (excluding cyclic, total)	28182 13	7 XV	\$ 564	\$ 566
7		28182 15	2 XV	\$ 564	\$ 566
8	SYNTHETIC ORGANIC CHEMICALS, N.E.C. (28183)	28183 11	9 VII	\$ 564	\$ 566
9	Flavor and perfume materials	28183 31	7 IX	\$ 564	\$ 566
10	Rubber-processing chemicals, total	28183 51	5 XI	\$ 564	\$ 566
11	Plasticizers, total			\$ 564	\$ 566
12	Monomers and other synthetic organic agricultural chemicals, except herbicides (Report preparations on lines 70-78.)	28184 11	7 XIII	\$ 564	\$ 566
13	THERMOPLASTIC RESINS AND PLASTICS MATERIALS (EXCLUDING RESINS FOR PROTECTIVE COATINGS) (28213)	28213 00	7 VIII	\$ 564	\$ 566
14	THERMOSETTING RESINS AND PLASTICS MATERIALS (EXCLUDING RESINS FOR PROTECTIVE COATINGS) (28214)	28214 00	5 VIII	\$ 564	\$ 566

Please continue on page 6

Section I - ORGANIC CHEMICALS

Line number	Products and services (A)	Census product code (B-1)	Unit of measure for quantities (B-2)	Corresponds to 1972 U.S. Tariff Commission Chemical Report, Section- (6-3)	Quantity produced for all purposes (C)	Products shipped and other receipts, including interplant transfers		Transfers to other plants of your company	
						Quantity (D)	Value, f.o.b. plant (THOUSANDS OF DOLLARS) (E)	Quantity (F)	Value, f.o.b. plant (THOUSANDS OF DOLLARS) (G)
	SYNTHETIC RESINS FOR PROTECTIVE COATINGS (28216)	581					584		586
14	Thermoplastic resins	28216 10	9	VIII			\$		\$
15	Thermosetting resins	28216 20	8	VIII			584		586
16	Synthetic (chemical) rubbers and other synthetic elastomers, vulcanizable (Report all quantities including all extended masterbatch rubbers, on the basis of elastomer content and, where applicable, oil content. Do not include the weight of coloring agents, carbon black, or other added materials.)	28220 00	2	X	Thousand pounds		584		586
17	Antibiotics, in bulk, including all uses such as veterinary, feed supplements, food preservation, crop spraying, etc.	28331 10	6	VI			584		586
18	Other synthetic organic medicinal chemicals, in bulk, except antibiotics	28331 20	5	VI			584		586
19	Bulk surface active agents	28430 85	8	XII			584		586
20	PRODUCTS FROM PETROLEUM AND NATURAL GAS FOR CHEMICAL CONVERSION	581					584		586
	Aromatics	29110 55	8	II			584		586
	Aliphatics	581					584		586
21	Liquefied refinery gases	29116 11	8	II			584		586
22	Other aliphatics	29116 31	6	II			584		586
23	OTHER INDUSTRIAL ORGANIC CHEMICALS (Data for which are not reported to Tariff Commission). (28185) Ethyl alcohol Pure (natural)	28185 11	4		Thousand proof gallons		584		586
24	Essenced (special or complete), including natural and synthetic for uses other than rubbing	28185 21	3		Thousand wine gallons		584		586
25	Flavor oil mixtures and blends	28185 31	2		Pounds		584		586
26	Reagent and high purity grades of organic chemicals refined from purchased technical grades	28185 37	9				584		586
27	Natural organic chemicals, n.e.c. (Specify kind)	28185 51	0				584		586
28	Other industrial organic chemicals (Specify kind and unit of measure)	28185 98	1				\$		\$

Section II - INORGANIC CHEMICALS

INSTRUCTIONS

This report requests totals for groups of products covered in more detail on Annual Census Surveys: MA-28B, "Shipments and Production of Sulfuric Acid," MA-28E.1, "Shipments and Production of Inorganic Chemicals for 1972," MA-28E.2, "Shipments and Production of Industrial Gases for 1972."

The relationship of figures between this survey and those above is noted in columns (B-3) and (B-4).

Line number	Products and services (A)	Census product code (B-1)	Corresponds to the sum reported in 1972 on -		Products shipped and other receipts		
			Census form (B-3)	Codes (B-4)	Value, f.o.b. plant (E)		
					Millions	Thous- ands	Dollars
					000	000	000
29	ALKALIES AND CHLORINE	581			584		
	Chlorine, compressed or liquefied	28121 00	2	MA-28E.1	2812111- 2812115	\$	
30	Sodium carbonate	28122 00	0	MA-28E.1	2812231- 2812231	584	
31	Sodium hydroxide (caustic soda)	28123 00	8	MA-28E.1	2812351- 2812377	584	
32	Other alkalies	28124 00	6	MA-28E.1	2812421- 2812490	584	
33	INDUSTRIAL GASES	581			584		
	Ethylene	28132 00	9	MA-28E.2	2813200		
34	Carbon dioxide	28133 00	7	MA-28E.2	2813311- 2813331	584	
35	Elemental gases and compressed and liquefied gases, n.e.c.	28134 00	5	MA-28E.2	2813411- 2813498	584	

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Form HC-28A (Rev. 12-80)		U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS		PLEASE ENTER YOUR CENSUS FILE NUMBER 812.003 0003 6		Page 7	
1972 CENSUS OF MANUFACTURES INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT INDUSTRIAL GASES) - Continued				Name of establishment (Same as address box) American Cyanamid Co.			
Item 18 - PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1972 - Continued							
Section II - INORGANIC CHEMICALS - Continued							
Line number	Products and services (A)	Census product code (B-1)	Unit of measure for quantities (B-2)	Quantity produced for all purposes (C)	Corresponds to the sum reported in 1972 on - Census form (B-3) Codes (B-4)	Products shipped and other receipts Value, f.o.b. plant (E) Millions Thousands Dollars 000 000 000	
36	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.	28191 00	5		MA-28E.1	2819111-2819159	\$
37	Synthetic ammonia, nitric acid, and ammonium compounds	28192 11	0		MA-28E.1	2819211	\$
38	Chlorine and other inorganic bleaching compounds	28192 63	1		MA-28E.1	2819231, 2819263	\$
39	Other industrial bleaches	28192 43	3		MA-28E.1	2819243	\$
40	Household liquid bleaches (sodium hypochlorite, etc.)	28192 53	2		MA-28E.1	2819253	\$
41	Household dry bleaches (inorganic base)	28193 00	1		MA-28E.1	2819311-2819351	\$
42	Sulfuric acid	28194 10	8		MA-28E.1	2819411-2819471, 2819489	\$
43	Inorganic acids	28194 80	1		MA-28E.1	2819481-2819487	\$
44	All acids, except nitric, sulfuric, and phosphoric	28195 00	6		MA-28E.1	2819511	\$
45	Phosphoric acid	28196 00	4		MA-28E.1	2819611-2819687	\$
46	Aluminum oxide	28197 00	2		MA-28E.1	2819713-2819738	\$
47	Other aluminum compounds	28198 00	0		MA-28E.1	2819811	\$
48	Potassium and sodium compounds (except bleaches, alkalies, and alums)	28199 00	8		MA-28E.1	2819901-2819998	\$
49	Chemical catalytic preparations	28199 00	8		MA-28E.1	2819901-2819998	\$
50	Other inorganic chemicals, n.e.c.	28199 00	8		MA-28E.1	2819901-2819998	\$
Section III - INORGANIC PIGMENTS AND OTHER PRODUCTS							
Line number	Products and services (A)	Census product code (B-1)	Unit of measure for quantities (B-2)	Quantity produced for all purposes (C)	Quantity (D)	Value, f.o.b. plant (E) Millions Thousands Dollars 000 000 000	
49	INORGANIC PIGMENTS (Report reduced colors on C.P. basis on lines 49-63.)	28161 11	5	Short tons		\$	
50	Titanium pigments, composite and pure (100% TiO ₂)	28162 13	9	Short tons	13020	8993	3582
51	OTHER WHITE OPAQUE PIGMENTS (28162)	28162 21	2	Short tons		\$	
52	White lead, basic carbonate and sulfate, excluding white lead in oil	28162 25	3	Short tons		\$	
53	Zinc oxide pigments	28162 25	3	Short tons		\$	
54	Lead-free zinc oxide	28162 25	3	Short tons		\$	
55	Leaded zinc oxide	28162 25	3	Short tons		\$	
56	All other white opaque pigments including antimony oxide, lithopone, and pure zinc sulfide (Specify kind)	28162 98	0	Short tons		\$	
57	CHROME COLORS AND OTHER INORGANIC PIGMENTS (28163)	28163 10	3	Short tons		\$	
58	Chrome colors (corresponds to the sum of codes 28163 11-28163 19 as reported on Census Annual Form MA-28E.1, Shipments and Production of Inorganic Chemicals for 1972)	28163 27	7	Short tons		\$	
59	White extender pigments including barytes, blanc fixe, and whiting	28163 31	9	Short tons		\$	
60	Color pigments other than chrome colors and lakes and toners	28163 41	8	Short tons		\$	
61	Iron oxide pigments	28163 45	9	Short tons		\$	
62	Colored lead pigments	28163 51	7	Thousand pounds		\$	
63	Red lead	28163 61	6	Thousand pounds		\$	
64	Litharge	28163 88	9	Thousand pounds		\$	
65	Iron blues (prussian blue, milori blue, etc.)	28163 88	9	Thousand pounds		\$	
66	Pearl essence	28163 88	9	Thousand pounds		\$	
67	Carbon blacks (bone and lamp), excluding furnace and channel carbon black and charcoal (Specify kind)	28163 88	9	Thousand pounds		\$	

Please continue on page 8

Item 18 - PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1972 - Continued
Section III - INORGANIC PIGMENTS AND OTHER PRODUCTS

Page 8

Line number	Products and services		Census product code		Unit of measure for quantities	Quantity produced for all purposes	Products shipped and other receipts			
							Quantity	Value, f.o.b. plant		
								(E)		
	(A)		(B-1)	(B-2)	(C)	(D)	Millions	Thousands	Dollars	
							000	000	000	
52	CHROME COLORS AND OTHER INORGANIC PIGMENTS (28163)	Ceramic colors (Specify chemical composition)	581		582	583	584			
	Continued	All other color pigments, including ultramarine blue (excluding organic pigments, lakes, and toners; see line 4) (Specify kind)	28163 91	3	Thousand pounds		\$			
53			581		582	583	584			
			28163 98	8	Thousand pounds					
54	Dry (solid) alkaline detergents, nonhousehold, except machine, dishwashing compounds (finished weight)		581		582	583	584			
	Hard surface cleaners		28411 26	2	Thousand pounds					
55			581		582	583	584			
56	Other alkaline detergents		28411 28	8	Thousand pounds					
57			581				584			
58	Household ammonia		28423 71	3						
59			581				584			
60	Perfume oil mixtures and blends		28442 11	9						
61	Ammonium phosphates (basis 100% P ₂ O ₅)		581		582	583	584			
	Chemically processed nitrogen-phosphorus materials comprising liquid and solid fertilizer grades of monoammonium and diammonium phosphates and their processed combinations with ammonium sulfate									
	(Return on line 69, ammonium phosphates produced in combination with potash salts to make complete mixtures.)		28711 51	3	Short tons					
62	Other phosphatic fertilizer materials (chemically processed materials including ammonium phosphate potash mixtures, nitrophosphates, calcium phosphates, sodium phosphates, wet base goods, etc.) (basis 100% P ₂ O ₅) (Specify kind)		581		582	583	584			
63										
64			28711 61	2	Short tons					
70	INSECTICIDAL AND FUNGICIDAL PREPARATIONS (FORMULATIONS) PRIMARILY FOR AGRICULTURAL, GARDEN, AND HEALTH SERVICE USE (28790)	Benzene hexachloride and/or lindane preparations without DDT	581		582	583	584			
		DDT-containing preparations	28790 32	7	Thousand pounds					
71		Preparations containing DDT as the active ingredient	581		582	583	584			
			28790 33	5	Thousand pounds					
72		Preparations of DDT and other toxicants	581		582	583	584			
			28790 35	0	Thousand pounds					
73		Chlorinated hydrocarbon pesticidal preparations other than those containing benzene hexachloride or DDT	581		582	583	584			
			28790 39	2	Thousand pounds					
74		Organic phosphate-containing preparations	581		582	583	584			
		Preparations containing parathion as the active ingredient	28790 43	4	Thousand pounds					
75		Preparations containing methyl parathion as the active ingredient	581		582	583	584			
			28790 45	9	Thousand pounds					
76		Preparations containing other organic phosphates as the active ingredient	581		582	583	584			
			28790 47	5	Thousand pounds					
77		Other agricultural insecticidal preparations and/or concentrates including petroleum oil sprays and emulsions without other toxicants (excluding botanicals)	581		582	583	584			
			28790 49	1	Thousand pounds					
78		Soil fumigants	581		582	583	584			
			28790 71	5	Thousand pounds					
79	AUTOMOTIVE ANTIFREEZE PREPARATIONS, PERMANENT TYPE		581		582	583	584			
			28893 35	0	Gallons					
80	Natural gas liquids (natural gasoline, plant condensate, liquefied petroleum gases, ethane, isopentane, and drip from lines)		581		582	583	584			
			13212 01	4	Thousand barrels					
81	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.) For all remaining products describe and report a single total value.	581		582	583	584			
82			581		582	583	584			

MC-28A (Rev. 12-61) U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS 1972 CENSUS OF MANUFACTURES INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT INDUSTRIAL GASES) - Continued		PLEASE ENTER YOUR CENSUS FILE NUMBER 812 003 0003 6 Page 9 Name of establishment (Same as address box) <i>American Cyanamid Co.</i>																	
Item 18 - PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1972 - Continued																			
Section III - INORGANIC PIGMENTS AND OTHER PRODUCTS - Continued																			
Line number	Products and services (A)	Census product code (B-1)	Products shipped and other receipts Value, f.o.b. plant (E) Millions Thousands Dollars 000 000 000																
83	CONTRACT WORK Receipts for work done for others on their own materials. (Describe products worked on and kind of work.)	581 93000 80	584 8 \$																
84	MISCELLANEOUS RECEIPTS Sales of scrap and refuse	581 99980 13	584 8																
85	Receipts for research and developmental work	581 99980 41	584 9																
86	Other miscellaneous receipts (including receipts for repair work, etc.)	581 99980 98	584 9																
87	RESALES Sales of products bought and resold without further manufacture, processing, or assembly in this establishment. (The cost of such items should be reported in item 5b.)	581 99989 00	584 6																
88	TOTAL (Sum of figures on lines 1-87 column (E))	581 77000 00	584 8 \$ 3,576																
Items 19-21 - Not applicable to this form.																			
Remarks																			
Item 22 CERTIFICATION	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Name of person to contact regarding this report</td> <td style="width: 30%;">Address (Number and street, city, State)</td> <td style="width: 10%;">ZIP code</td> <td style="width: 30%;">Telephone Area code Number Extension</td> </tr> <tr> <td colspan="4"> This report is substantially accurate and covers the period from _____ to _____ </td> </tr> <tr> <td colspan="2"> Name of company <i>American Cyanamid Co.</i> </td> <td colspan="2"> Address (Number and street, city, State) </td> </tr> <tr> <td colspan="2"> Signature of authorized person </td> <td> Title </td> <td> Date </td> </tr> </table>			Name of person to contact regarding this report	Address (Number and street, city, State)	ZIP code	Telephone Area code Number Extension	This report is substantially accurate and covers the period from _____ to _____				Name of company <i>American Cyanamid Co.</i>		Address (Number and street, city, State)		Signature of authorized person		Title	Date
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