



Interoffice Communication

To Frank Phillips, Lake Charles Refinery
From Paul Rady, PED, Ponca City
Date October 11, 1991
Subject **1990 SARA Title III, Section 313 Documentation**

Please find enclosed a copy of the 1990 documentation for the Lake Charles refinery SARA report. This documentation should be kept on record for 3 years. A copy is also being sent to Jack Cearley, RNA, Houston, and a copy will be kept on file in PED, Ponca City.

I would like to thank Reid Trekell for his assistance in supplying necessary information to complete this report.

If there are questions concerning the 1990 report, please feel free to contact me at ETN 442-5908.

Paul Rady
Process Engineer
Environmental Section
Process Engineering Division

cc: w/o doc RH/TGW - Ponca City
Karen Kennedy, RNA, Houston
w/ doc Jack Cearley, RNA, Houston

Approval Charles L. Murphy

REF
12

Sara Title III, Section 313

Toxic Chemical Release Inventory

Reports and Calculations

LAKE CHARLES REFINERY

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LAKE CHARLES REFINERY

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CHEMICALS REPORTED

SARA TITLE III, SECTION 313

1990 TOXIC CHEMICAL RELEASE INVENTORY

LAKE CHARLES REFINERY

LAKE CHARLES REFINERY

1990 SARA 313 REPORTING

LIST OF REPORTABLE TOXIC CHEMICALS

1,2,4-Trimethylbenzene (m,p)
1,3-Butadiene (m,p,u)
Ammonia (u)
Benzene (p)
Chlorine (u)
Cumene (m,p)
Cyclohexane (p)
Ethylbenzene (m,p)
Ethylene (m,p,u)
Hydrochloric acid (u)
Lead Compounds (p)
Manganese Compounds (p)
Methanol (p,u)
Molybdenum Trioxide (u)
MTBE (m,p)
Naphthalene (p,u)
Phosphoric Acid (u)
Propylene (m,p,u)
Styrene (p)
Sulfuric Acid (m,u)
Toluene (p)
Xylene (p)

Notes:

m = manufacture the chemical
p = process the chemical
u = otherwise use the chemical

RELEASE SUMMARY

SARA TITLE III, SECTION 313
1990 TOXIC CHEMICAL RELEASE INVENTORY
LAKE CHARLES REFINERY

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

1990 EMISSION SUMMARY BY COMPONENT

	AIR		Lbs/Yr		
	NON-POINT	POINT	WATER	LAND	TOTAL
				OFF-SITE	
AMMONIA	1,627		2,172	0	3,799
BENZENE	40,900	7,281	33	21	48,235
1,3-BUTADIENE	1,260	0		0	1,260
CHLORINE	2,018				2,018
CUMENE	18,696	444	17	23	19,180
CYCLOHEXANE	19,319	4,489	17	23	23,848
ETHYLBENZENE	8,953	565	17	24	9,559
ETHYLENE	14,660				14,660
HYDROCHLORIC ACID	614	30	0	0	644
LEAD COMPOUNDS	72	0	0		72
MANGANESE COMPOUN	250	0	0	0	250
METHANOL	1,606	1,210	0	0	2,816
MOLYBDENUM TRIOXIDE	118	0		0	118
MTBE	792				792
NAPHTHALENE	13,868	3,667	33	316	17,884
PHOSPHORIC ACID	0	0	0	0	0
PROPYLENE	109,340				109,340
SULFURIC ACID	499	478	0	0	977
STYRENE	1,153	4	17		1,174
TOLUENE	49,810	6,559	33	72	56,474
1,2,4-TRIMETHYLBENZE	7,604	105	17	22	7,748
XYLENES	44,773	2,207	17	0	46,997
TOTAL	337,932	27,039	2,373	501	367,845

REPORT FORMS (FORM R)

SARA TITLE III, SECTION 313
1990 TOXIC CHEMICAL RELEASE INVENTORY
LAKE CHARLES REFINERY

Releases to the Environment for 1990
LAKE CHARLES REFINERY

CHEMICAL NAME	AIR	WATER	UI	LAND	TOTAL RELEASES
1,2,4-TRIMETHYLBENZENE	7,710	17	0	0	7,727
1,3-BUTADIENE	1,300	0	0	0	1,300
AMMONIA	1,600	2,200	0	0	3,800
BENZENE	48,300	33	0	0	48,333
CHLORINE	2,000	0	0	0	2,000
CUMENE	19,440	17	0	0	19,457
CYCLOHEXANE	23,500	17	0	0	23,517
ETHYLBENZENE	9,570	17	0	0	9,587
ETHYLENE	15,000	0	0	0	15,000
HYDROCHLORIC ACID	640	0	0	0	640
LEAD COMPOUNDS	72	0	0	0	72
MANGANESE COMPOUND	250	0	0	0	250
METHANOL	2,800	0	0	0	2,800
METHYL T-BUTYL ETHER	1,910	0	0	0	1,910
MOLYBDENUM TRIOXIDE	120	0	0	0	120
NAPHTHALENE	17,700	33	0	0	17,733
PHOSPHORIC ACID	0	0	0	0	0
PROPYLENE	110,000	0	0	0	110,000
STYRENE	1,204	17	0	0	1,221
SULFURIC ACID	736	0	0	0	736
TOLUENE	56,600	33	0	0	56,633
XYLENE (MIXED ISOMERS)	47,200	17	0	0	47,217
Totals:	367,652	2,401	0	0	370,053

IMPORTED FROM 313ADVISE
TO WORKPERSPECT

SAL 000003628

Transfers to POTW and Off-site locations for 1990
LAKE CHARLES REFINERY

CHEMICAL NAME	POTW	OFF-SITE	TOTAL TRANSFERS
1,2,4-TRIMETHYLBENZENE	0	22	22
1,3-BUTADIENE	0	0	0
AMMONIA	0	0	0
BENZENE	0	21	21
CHLORINE	0	0	0
CUMENE	0	23	23
CYCLOHEXANE	0	0	0
ETHYLBENZENE	0	24	24
ETHYLENE	0	0	0
HYDROCHLORIC ACID	0	0	0
LEAD COMPOUNDS	0	0	0
MANGANESE COMPOUNDS	0	0	0
METHANOL	0	0	0
METHYL TERT-BUTYL ETHER	0	0	0
MOLYBDENUM TRIOXIDE	0	0	0
NAPHTHALENE	0	321	321
PHOSPHORIC ACID	0	0	0
PROPYLENE	0	0	0
STYRENE	0	0	0
SULFURIC ACID	0	0	0
TOLUENE	0	73	73
XYLENE (MIXED ISOMERS)	0	0	0
Totals:	0	484	484

U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORMSection 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: FRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20503.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
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2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. ☒ An entire facility b. ☐ Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)			
1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).			
2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☒ No	
2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	
2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☐ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	
☐ Check if additional pages of Part II are attached. How many? _____			



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
1,2,4-TRIMETHYLBENZENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000095-63-6
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) 1,2,4-TRIMETHYLBENZENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
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3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☐ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☒ As an impurity
3.2	Process the chemical: a. ☒ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

017 (enter code)	
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5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)					
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	7,600	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	110	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☒	5.3.1a ☐ ☐ ☐	17	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)					
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ 1 (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R

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PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
1,2,4-TRIMETHYLBENZENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[] [] []	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 1	[] [] []	22	6.2.1b O	6.2.1.c M 7 2
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []	NA	6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.3b	6.2.3.c M

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.1a W	7.1b B 1 1	7.1c 4	7.1d []	7.1e 99 %	7.1f [] (X)
7.2a A	7.2b A 0 7	7.2c 2	7.2d []	7.2e 88 %	7.2f (X) []
7.3a	7.3b	7.3c	7.3d []	7.3e %	7.3f [] []
7.4a	7.4b	7.4c	7.4d []	7.4e %	7.4f [] []
7.5a	7.5b	7.5c	7.5d []	7.5e %	7.5f [] []
7.6a	7.6b	7.6c	7.6d []	7.6e %	7.6f [] []
7.7a	7.7b	7.7c	7.7d []	7.7e %	7.7f [] []
7.8a	7.8b	7.8c	7.8d []	7.8e %	7.8f [] []
7.9a	7.9b	7.9c	7.9d []	7.9e %	7.9f [] []
7.10a	7.10b	7.10c	7.10d []	7.10e %	7.10f [] []

[] (Check if additional information is provided on Part IV - Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
M			+ - %	R

SAL 000003633



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

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(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
1,2,4-TRIMETHYLBENZENE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate			
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)							
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a	[] [] []			5.3. ☐ b	5.3. ☐ c %
	5.3. ☐	5.3. ☐ a	[] [] []			5.3. ☐ b	5.3. ☐ c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a	[] [] []			5.3. ☐ b	5.3. ☐ c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate			
You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)							
Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []				6.1. ☐ b	
6.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []				6.2. ☐ b	6.2. ☐ c M ☐ ☐
6.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []				6.2. ☐ b	6.2. ☐ c M ☐ ☐
6.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []				6.2. ☐ b	6.2. ☐ c M ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]



U.S. Environmental Protection Agency

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TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PH-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
----	--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)	
Street Address OLD SPANISH TRAIL			
City WESTLAKE	County CALCASIEU		
State LA	Zip Code 70669		
TRI Facility Identification Number 70669 CNCLK OLDSP			

3.2	This report contains information for (Check only one): a. ☒ An entire facility b. ☐ Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
-----	--	-----	---



EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS. (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☒ No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☐ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	

☐ Check if additional pages of Part II are attached.
How many? _____



PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
1,3-BUTADIENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000106-99-0
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) 1,3-BUTADIENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☐ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☒ As an impurity
3.2	Process the chemical: a. ☒ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

015 (enter code)	
------------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	1,300	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	NA	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☐	5.3.1a ☐ ☐ ☐	NA	5.3.1b ☐	5.3.1c %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐		5.3.2b ☐	5.3.2c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R

Page 4 of 5

PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
1,3-BUTADIENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[] [] []	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []	NA	6.2.1b	6.2.1.c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.3b	6.2.3.c M

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a	7.1b	7.1c	7.1d []	7.1e %	7.1f []	[]
7.2a	7.2b	7.2c	7.2d []	7.2e %	7.2f []	[]
7.3a	7.3b	7.3c	7.3d []	7.3e %	7.3f []	[]
7.4a	7.4b	7.4c	7.4d []	7.4e %	7.4f []	[]
7.5a	7.5b	7.5c	7.5d []	7.5e %	7.5f []	[]
7.6a	7.6b	7.6c	7.6d []	7.6e %	7.6f []	[]
7.7a	7.7b	7.7c	7.7d []	7.7e %	7.7f []	[]
7.8a	7.8b	7.8c	7.8d []	7.8e %	7.8f []	[]
7.9a	7.9b	7.9c	7.9d []	7.9e %	7.9f []	[]
7.10a	7.10b	7.10c	7.10d []	7.10e %	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior Year (pounds/year)		
M		Prior Year (pounds/year)	Or Percent Change (check (+) or (-)) + - %	



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
1,3-BUTADIENE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

		A. Total Release (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate			
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %
	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

		A. Total Transfers (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
		A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate			
You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)						
Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []			6.1. ☐ b	
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ M ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ M ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ M ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []

SAL 000003639



U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

Page 1 of 5

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

1. FACILITY IDENTIFICATION				WHERE TO SEND COMPLETED FORMS:			
Facility or Establishment Name CONOCO LAKE CHARLES REFINERY				1. EPCRA REPORTING CENTER			
Street Address OLD SPANISH TRAIL				P.O. BOX 23779			
City WESTLAKE				WASHINGTON, DC 20026-3779			
County CALCASIEU				ATTN: TOXIC CHEMICAL RELEASE INVENTORY			
State LA				2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
Zip Code 70669							
TRI Facility Identification Number 70669 CNCLK OLDSP							
3.2 This report contains information for (Check only one): a. ☒ An entire facility b. ☐ Part of a facility							
3.3 Technical Contact REID TREKELL				Telephone Number (include area code) (318) 491-5449			
3.4 Public Contact DON R. UNRUH				Telephone Number (include area code) (318) 491-5222			
3.5 SIC Code (4 digit) a. 2911		b. NA		c.		d.	
e.		f.					
3.6 Latitude				Longitude			
Degrees 30		Minutes 14		Seconds 36		Degrees 093	
Minutes 16		Seconds 20					
3.7 Dun & Bradstreet Number(s) a. 00-842-7692				b. NA			
3.8 EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716				b. NA			
3.9 NPDES Permit Number(s) a. IA0003026				b. NA			
3.10 Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE				b. NA			
c.				d.			
e.				f.			
3. Underground Injection Well Code (UIC) Identification Number(s) a. NA				b.			

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company E. I. DU PONT DE NEMOURS	4.2 Parent Company's Dun & Bradstreet Number 00-131-5704
--	---



EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
AMMONIA

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 007664-41-7
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) AMMONIA
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2.	MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.) Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☐ As an impurity
3.2	Process the chemical: a. ☐ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☒ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

0 (enter code)	
----------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)					
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	1,600	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	NA	5.2b ☐	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☒ A	5.3.1a ☐ ☐ ☐	2,200	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

Page 4 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
AMMONIA

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.)	1	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.)	2	NA	6.2.1b	6.2.1.c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.)	2		6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.)	2		6.2.3b	6.2.3.c M

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.1a W	7.1b B11	7.1c 3	7.1d []	7.1e 36 %	7.1f [] [X]
7.2a W	7.2b P42	7.2c 2	7.2d []	7.2e 98 %	7.2f [] [X]
7.3a	7.3b	7.3c	7.3d []	7.3e %	7.3f [] []
7.4a	7.4b	7.4c	7.4d []	7.4e %	7.4f [] []
7.5a	7.5b	7.5c	7.5d []	7.5e %	7.5f [] []
7.6a	7.6b	7.6c	7.6d []	7.6e %	7.6f [] []
7.7a	7.7b	7.7c	7.7d []	7.7e %	7.7f [] []
7.8a	7.8b	7.8c	7.8d []	7.8e %	7.8f [] []
7.9a	7.9b	7.9c	7.9d []	7.9e %	7.9f [] []
7.10a	7.10b	7.10c	7.10d []	7.10e %	7.10f [] []

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
M			+ - %	R



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
AMMONIA

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.3 Discharges to receiving streams or water bodies	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %
	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
	A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
6.1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐ [] [] []		6.1. ☐ b ☐	
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐
5. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐
5.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]



U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20003.

1.1 Are you claiming the chemical identity on page 3 trade secret? 1. [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
--	---	----------------------------

. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

. FACILITY IDENTIFICATION				WHERE TO SEND COMPLETED FORMS:			
3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY			1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL						
	City WESTLAKE	County CALCASIEU					
	State LA	Zip Code 70669					
	TRI Facility Identification Number 70669 CNCLK OLDSP						
3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility						
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449			
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222			
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.	
3.6	Latitude			Longitude			
	Degrees 30	Minutes 14	Seconds 36	Degrees 093	Minutes 16	Seconds 20	
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA			
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716			b. NA			
3.9	NPDES Permit Number(s) a. LA0003026			b. NA			
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA			
	c.			d.			
	e.			f.			
	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.			

. PARENT COMPANY INFORMATION

4.1 Name of Parent Company E. I. DU PONT DE NEMOURS	4.2 Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☒ No	

2.3 Off-site location name SALITY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☐ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	

Check if additional pages of Part II are attached.
How many? _____

SAL 000003646



CONOCO LAKE CHARLES REFINERY
BENZENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000071-43-2
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) BENZENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☒ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☒ As an impurity
3.2	Process the chemical: a. ☒ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

07 (enter code)	
-----------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	41,000	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	7,300	5.2b ☐	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☐ A	5.3.1a ☐ ☐ ☐	33	5.3.1b ☐ M	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
BENZENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	1	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 1	1	20	6.2.1b O	6.2.1.c M 7 2
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2 2	2	1	6.2.2b O	6.2.2.c M 5 0
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2 3	3	0	6.2.3b O	6.2.3.c M 6 9

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
W	7.1b B 1 1	7.1c 3	7.1d	7.1e 99 %	7.1f <input checked="" type="text" value="X"/>
7. A	7.2b A 0 7	7.2c 2	7.2d	7.2e 88 %	7.2f <input checked="" type="text" value="X"/>
7.3a	7.3b	7.3c	7.3d	7.3e %	7.3f
7.4a	7.4b	7.4c	7.4d	7.4e %	7.4f
7.5a	7.5b	7.5c	7.5d	7.5e %	7.5f
7.6a	7.6b	7.6c	7.6d	7.6e %	7.6f
7.7a	7.7b	7.7c	7.7d	7.7e %	7.7f
7.8a	7.8b	7.8c	7.8d	7.8e %	7.8f
7.9a	7.9b	7.9c	7.9d	7.9e %	7.9f
7.10a	7.10b	7.10c	7.10d	7.10e %	7.10f

☐ (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
M			+ - %	R



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
BENZENE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate			
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. _a	[] [] []		5.3. _b ☐	5.3. _c %	
	5.3. ☐	5.3. _a	[] [] []		5.3. _b ☐	5.3. _c %	
	(Enter letter code for stream from Part I Section 3.10 in the box provided.) 5.3. ☐	5.3. _a	[] [] []		5.3. _b ☐	5.3. _c %	

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
6.1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []			6.1. _b ☐	
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c ☐ ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c ☐ ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c ☐ ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]



U.S. Environmental Protection Agency

Page 1 of 5

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Chief Information Policy Branch (PH-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: IRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
----	--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY			WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)		
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
3.2						
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____

SAL 000003651



PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
CHLORINE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 007782-50-5
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) CHLORINE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☐ As an impurity
3.2	Process the chemical: d. ☐ Repackaging only	a. ☐ As a reactant b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☒ Ancillary or other use		

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

4	(enter code)	
---	--------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)					
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	2,000	5.1b ☒	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	NA	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☐	5.3.1a ☐ ☐ ☐	NA	5.3.1b ☐	5.3.1c %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐		5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)					
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R

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PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
CHLORINE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[] [] []	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []	NA	6.2.1b	6.2.1.c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.3b	6.2.3.c M

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.1a	7.1b 1 1 1	7.1c	7.1d []	7.1e %	7.1f [] []
7.2a	7.2b 1 1 1	7.2c	7.2d []	7.2e %	7.2f [] []
7.3a	7.3b 1 1 1	7.3c	7.3d []	7.3e %	7.3f [] []
7.4a	7.4b 1 1 1	7.4c	7.4d []	7.4e %	7.4f [] []
7.5a	7.5b 1 1 1	7.5c	7.5d []	7.5e %	7.5f [] []
7.6a	7.6b 1 1 1	7.6c	7.6d []	7.6e %	7.6f [] []
7.7a	7.7b 1 1 1	7.7c	7.7d []	7.7e %	7.7f [] []
7.8a	7.8b 1 1 1	7.8c	7.8d []	7.8e %	7.8f [] []
7.9a	7.9b 1 1 1	7.9c	7.9d []	7.9e %	7.9f [] []
7.10a	7.10b 1 1 1	7.10c	7.10d []	7.10e %	7.10f [] []

[] (Check if additional information is provided on Part IV - Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
M			1 1 1	R



PART IV. SUPPLEMENTAL INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
CHLORINE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a ☐ [] [] []			5.3. ☐ b ☐	5.3. ☐ c ☐ %
	5.3. ☐	5.3. ☐ a ☐ [] [] []			5.3. ☐ b ☐	5.3. ☐ c ☐ %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a ☐ [] [] []			5.3. ☐ b ☐	5.3. ☐ c ☐ %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)						
6.1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []			6.1. ☐ b ☐	
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]

U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORMSection 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 35 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20503.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
----	---	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY					
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE		County CALCASIEU			
	State LA		Zip Code 70669			
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility					
3.3	Technical Contact REID TREKELL				Telephone Number (include area code) (318) 491-5449	
3.4	Public Contact DON R. UNRUH				Telephone Number (include area code) (318) 491-5222	
3.5	SIC Code (4 digit) a. 2911		b. NA	c.	d.	e. f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692				b. NA	
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716				b. NA	
3.9	NPDES Permit Number(s) a. LA0003026				b. NA	
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE				b. NA	
	c.				d.	
	e.				f.	
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA					
	b.					

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name S...ITY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____

SAL 000003656



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
CUMENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000098-82-8
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) CUMENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☐ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct d. ☐ For sale/distribution f. ☒ As an impurity c. ☐ As an article component
3.2	Process the chemical: a. ☒ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

7 (enter code)	
----------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)					
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	19,000	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	440	5.2b ☐	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☒ A	5.3.1a ☐ ☐ ☐	17	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

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CONOCO LAKE CHARLES REFINERY
CUMENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use Both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) ☐ 1 ☐	[] [] []	NA	6.1.1b ☐	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐ 1	[] [] []	22	6.2.1b ☐ 0	6.2.1.c ☐ M ☐ 7 ☐ 2
6.2.2 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐ 2	[] [] []	1	6.2.2b ☐ 0	6.2.2.c ☐ M ☐ 5 ☐ 0
6.2.3 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐ 3	[] [] []	0	6.2.3b ☐ 0	6.2.3.c ☐ M ☐ 6 ☐ 9

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
☐ W	7.1b ☐ B ☐ 1 ☐ 1	7.1c ☐ 4	7.1d []	7.1e 99 %	7.1f []	☒ X
☐ A	7.2b ☐ A ☐ 0 ☐ 7	7.2c ☐ 2	7.2d []	7.2e 88 %	7.2f ☒ X	[]
7.3a ☐	7.3b ☐ ☐ ☐	7.3c ☐	7.3d []	7.3e %	7.3f []	[]
7.4a ☐	7.4b ☐ ☐ ☐	7.4c ☐	7.4d []	7.4e %	7.4f []	[]
7.5a ☐	7.5b ☐ ☐ ☐	7.5c ☐	7.5d []	7.5e %	7.5f []	[]
7.6a ☐	7.6b ☐ ☐ ☐	7.6c ☐	7.6d []	7.6e %	7.6f []	[]
7.7a ☐	7.7b ☐ ☐ ☐	7.7c ☐	7.7d []	7.7e %	7.7f []	[]
7.8a ☐	7.8b ☐ ☐ ☐	7.8c ☐	7.8d []	7.8e %	7.8f []	[]
7.9a ☐	7.9b ☐ ☐ ☐	7.9c ☐	7.9d []	7.9e %	7.9f []	[]
7.10a ☐	7.10b ☐ ☐ ☐	7.10c ☐	7.10d []	7.10e %	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
☐ M			Or Percent Change (check (+) or (-)) ☐ + ☐ - %	☐ R ☐



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

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CONOCO LAKE CHARLES REFINERY
CUMENE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. _a [] [] []			5.3. _b ☐	5.3. _c %
	5.3. ☐	5.3. _a [] [] []			5.3. _b ☐	5.3. _c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. _a [] [] []			5.3. _b ☐	5.3. _c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)						
6.1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []			6.1. _b ☐	
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c M ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c M ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c M ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]



U.S. Environmental Protection Agency

Page 1 of 5

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PH-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2070-0093), Washington, D.C. 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
----	--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. ☒ An entire facility b. ☐ Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318)491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318)491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
-----	--	-----	---

CFA

RY

1.1 POTW name

NA

Street Address

City

County

State

Zip

1.2 POTW name

Street Address

City

County

State

Zip

2.1 Off-site location name

CHEMICAL WASTE MANAGEMENT

EPA Identification Number (RCRA ID. No.)

LAD000777201

Street Address

RT. 2. JOHN BRANNON RD.

City

CARLYSS

County

CALCASIEU

State

LA

Zip

70663

Is location under control of reporting facility or parent company?

☐ Yes ☒ No

2.2 Off-site location name

E. I. DU PONT DE NEMOURS PONCHATRAIN

EPA Identification Number (RCRA ID. No.)

LAD001890367

Street Address

RIVER ROAD

City

LA PLACE

County

ST. JOHN THE BAPTIS

State

LA

Zip

70068

Is location under control of reporting facility or parent company?

☐ Yes ☒ No

2.3 Off-site location name

SAFETY-KLEEN CORPORATION

EPA Identification Number (RCRA ID. No.)

KYD053348108

Street Address

STATE HWY 148

City

NEW CASTLE

County

HENRY

State

KY

Zip

40050

Is location under control of reporting facility or parent company?

☐ Yes ☒ No

2.4 Off-site location name

NA

EPA Identification Number (RCRA ID. No.)

Street Address

City

County

State

Zip

Is location under control of reporting facility or parent company?

☐ Yes ☐ No

2.5 Off-site location name

EPA Identification Number (RCRA ID. No.)

Street Address

City

County

State

Zip

Is location under control of reporting facility or parent company?

☐ Yes ☐ No

2.6 Off-site location name

EPA Identification Number (RCRA ID. No.)

Street Address

City

County

State

Zip

Is location under control of reporting facility or parent company?

☐ Yes ☐ No☐ Check if additional pages of Part II are attached.

How many? _____

SAL 000003661



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
CYCLOHEXANE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000110-82-7
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) CYCLOHEXANE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. ☐ Produce	c. ☐ For on-site use/processing	d. ☐ For sale/distribution
		b. ☐ Import	e. ☐ As a byproduct	f. ☐ As an impurity
3.2	Process the chemical:	a. ☒ As a reactant	b. ☐ As a formulation component	c. ☐ As an article component
		d. ☐ Repackaging only		
3.3	Otherwise use the chemical:	a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

7	(enter code)	
---	--------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)			B. Basis of Estimate (enter code)	C. % From Stormwater		
		A.1 Reporting Ranges 1-10 11-499 500-999					A.2 Enter Estimate	
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)								
5.1 Fugitive or non-point air emissions	5.1a	☐	☐	☐	19,000	5.1b ☐		
5.2 Stack or point air emissions	5.2a	☐	☐	☐	4,500	5.2b ☐		
5.3 Discharges to receiving streams or water bodies	5.3.1 ☒ A	5.3.1a	☐	☐	☐	17	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a	☐	☐	☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a	☐	☐	☐		5.3.3b ☐	5.3.3c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)								
5.4 Underground Injection on-site	5.4a	☐	☐	☐	NA	5.4b ☐		
5.5 Releases to land on-site								
5.5.1 Landfill	5.5.1a	☐	☐	☐	NA	5.5.1b ☐		
5.5.2 Land treatment/application farming	5.5.2a	☐	☐	☐	NA	5.5.2b ☐		
5.5.3 Surface impoundment	5.5.3a	☐	☐	☐	NA	5.5.3b ☐		
5.5.4 Other disposal	5.5.4a	☐	☐	☐	NA	5.5.4b ☐		

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

SAL 000003662



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

Page 4 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
CYCLOHEXANE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1		NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 3		0	6.2.1b 0	6.2.1.c M 6 9
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2		NA	6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2			6.2.3b	6.2.3.c M

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
a W	7.1b B 1 1	7.1c 4	7.1d	7.1e 99 %	7.1f (X)
7.2a A	7.2b A 0 7	7.2c 2	7.2d	7.2e 88 %	7.2f (X)
7.3a	7.3b	7.3c	7.3d	7.3e %	7.3f
7.4a	7.4b	7.4c	7.4d	7.4e %	7.4f
7.5a	7.5b	7.5c	7.5d	7.5e %	7.5f
7.6a	7.6b	7.6c	7.6d	7.6e %	7.6f
7.7a	7.7b	7.7c	7.7d	7.7e %	7.7f
7.8a	7.8b	7.8c	7.8d	7.8e %	7.8f
7.9a	7.9b	7.9c	7.9d	7.9e %	7.9f
7.10a	7.10b	7.10c	7.10d	7.10e %	7.10f

☐ (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
M	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-)) %	 R



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
CYCLOHEXANE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)		B. Basis of Estimate	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate	(enter code in box provided)	
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %
	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)		B. Basis of Estimate	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate	(enter code in box provided)	
You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)						
6.1 Discharge to POTW (enter location number from Part II, Section 1.)	1 ☐	[] [] []			6.1. <u>b</u> ☐	
Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> ☐ ☐ ☐
6.2 Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> ☐ ☐ ☐
6.2 Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> ☐ ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> [] []

SAL 000003664



U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Page 1 of 5

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.1 Are you claiming the chemical identity on page 3 trade secret? 1. [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					

3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) IAD000777201		EPA Identification Number (RCRA ID. No.) IAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name S. CITY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____

SAL 000003666



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
ETHYLBENZENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	(Reserved)
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000100-41-4
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) ETHYLBENZENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☐ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☒ As an impurity c. ☐ As an article component
3.2	Process the chemical: a. ☒ As a reactant d. ☐ Repackaging only	b. ☒ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

7 (enter code)	
----------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	9,000	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	570	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☒ A	5.3.1a ☐ ☐ ☐	17	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



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PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
ETHYLBENZENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use Both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[] [] []	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 1	[] [] []	23	6.2.1b C	6.2.1.c M 7 2
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2 2	[] [] []	1	6.2.2b O	6.2.2.c M 5 0
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2 3	[] [] []	0	6.2.3b O	6.2.3.c M 6 9

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
W	7.1b B 1 1	7.1c 4	7.1d []	7.1e 99 %	7.1f []	<input checked="" type="text" value="X"/>
A	7.2b A 0 7	7.2c 2	7.2d []	7.2e 88 %	7.2f <input checked="" type="text" value="X"/>	[]
7.3a	7.3b	7.3c	7.3d []	7.3e %	7.3f []	[]
7.4a	7.4b	7.4c	7.4d []	7.4e %	7.4f []	[]
7.5a	7.5b	7.5c	7.5d []	7.5e %	7.5f []	[]
7.6a	7.6b	7.6c	7.6d []	7.6e %	7.6f []	[]
7.7a	7.7b	7.7c	7.7d []	7.7e %	7.7f []	[]
7.8a	7.8b	7.8c	7.8d []	7.8e %	7.8f []	[]
7.9a	7.9b	7.9c	7.9d []	7.9e %	7.9f []	[]
7.10a	7.10b	7.10c	7.10d []	7.10e %	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
M			Or Percent Change (check (+) or (-)) + - %	R



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PART IV. SUPPLEMENTAL INFORMATION

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(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
ETHYLBENZENE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

	A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.3 Discharges to receiving streams or water bodies	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c %
	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
	A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
6.1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐ [] [] []		6.1. ☐ b ☐	
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c M ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c M ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c M ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No	
					Yes	No
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]



U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

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Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM



PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
----	--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASTEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. ☒ An entire facility b. ☐ Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees 30 Minutes 14 Seconds 36			Longitude Degrees 093 Minutes 16 Seconds 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
1	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____



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PART III. CHEMICAL-SPECIFIC INFORMATION

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(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
ETHYLENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)	
1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000074-85-1
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) ETHYLENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)	
Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)	

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)			
3.1	Manufacture the chemical:	If produce or import:	
	a. ☒ Produce b. ☐ Import	c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☒ As an impurity
3.2	Process the chemical:	a. ☒ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component c. ☐ As an article component
3.3	Otherwise use the chemical:	a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid c. ☒ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR	
6 (enter code)	

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)					
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	15,000	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	NA	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☐	5.3.1a ☐ ☐ ☐	NA	5.3.1b ☐	5.3.1c X
	5.3.2 ☐	5.3.2a ☐ ☐ ☐		5.3.2b ☐	5.3.2c X
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c X
(Enter letter code for stream from Part I Section 3.10 in the box provided.)					
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

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CONOCO LAKE CHARLES REFINERY
ETHYLENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.)	1	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.)	2	NA	6.2.1b	6.2.1.c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.)	2		6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.)	2		6.2.3b	6.2.3.c M

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastewater containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
	7.1b	7.1c	7.1d	7.1e	7.1f	
	7.2b	7.2c	7.2d	7.2e	7.2f	
7.3a	7.3b	7.3c	7.3d	7.3e	7.3f	
7.4a	7.4b	7.4c	7.4d	7.4e	7.4f	
7.5a	7.5b	7.5c	7.5d	7.5e	7.5f	
7.6a	7.6b	7.6c	7.6d	7.6e	7.6f	
7.7a	7.7b	7.7c	7.7d	7.7e	7.7f	
7.8a	7.8b	7.8c	7.8d	7.8e	7.8f	
7.9a	7.9b	7.9c	7.9d	7.9e	7.9f	
7.10a	7.10b	7.10c	7.10d	7.10e	7.10f	

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
M			+ - %	R

SAL 000003673



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PART IV. SUPPLEMENTAL INFORMATION

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CONOCO LAKE CHARLES REFINERY
ETHYLENE

Use this section if you need additional space for answers to questions in Part III, Section 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)					
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a ☐ [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %
	5.3. ☐	5.3. ☐ a ☐ [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a ☐ [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

		A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
		A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)					
6.1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	☐ [] [] []		6.1. ☐ b ☐	
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ H ☐ ☐
6. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ H ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	☐ [] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ H ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]

U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORMSection 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 54 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St. SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20503.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
----	---	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility					
3.3	Technical Contact REID TREKELL		Telephone Number (include area code) (318) 491-5449			
3.4	Public Contact DON R. UNRUH		Telephone Number (include area code) (318) 491-5222			
3.5	a. SIC Code (4 digit) 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692		b. NA			
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716		b. NA			
3.9	NPDES Permit Number(s) a. LA0003026		b. NA			
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE		b. NA			
	c.		d.			
	e.		f.			
11	Underground Injection Well Code (UIC) Identification Number(s) a. NA		b.			

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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SAL 000003675



EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☒ No	

2.3 Off-site location name SUNBELT-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☐ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	

☐ Check if additional pages of Part II are attached.
How many? _____

SAL 000003676



PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
HYDROCHLORIC ACID

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 007647-01-0
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) HYDROCHLORIC ACID
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☐ As an impurity
3.2	Process the chemical: a. ☐ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☒ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

5 (enter code)	
----------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)					
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	610	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	30	5.2b ☐	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☒ A	5.3.1a ☐ ☐ ☐	0	5.3.1b ☒ M	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

Page 4 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
HYDROCHLORIC ACID

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	1 1 1	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	1 1 1	NA	6.2.1b	6.2.1.c M 1
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	1 1 1		6.2.2b	6.2.2.c M 1
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	1 1 1		6.2.3b	6.2.3.c M 1

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check if no on-site treatment is applied to any wastewater containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a W	7.1b C111	7.1c 1	7.1d 1	7.1e 100 %	7.1f ☒	☐
7.2a	7.2b	7.2c	7.2d	7.2e %	7.2f ☐	☐
7.3a	7.3b	7.3c	7.3d	7.3e %	7.3f ☐	☐
7.4a	7.4b	7.4c	7.4d	7.4e %	7.4f ☐	☐
7.5a	7.5b	7.5c	7.5d	7.5e %	7.5f ☐	☐
7.6a	7.6b	7.6c	7.6d	7.6e %	7.6f ☐	☐
7.7a	7.7b	7.7c	7.7d	7.7e %	7.7f ☐	☐
7.8a	7.8b	7.8c	7.8d	7.8e %	7.8f ☐	☐
7.9a	7.9b	7.9c	7.9d	7.9e %	7.9f ☐	☐
7.10a	7.10b	7.10c	7.10d	7.10e %	7.10f ☐	☐

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
M		Or Percent Change (check (+) or (-)) ☐ + ☐ - %		R



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
HYDROCHLORIC ACID

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %
	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.1 Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1	☐	[] [] []		6.1. ☐ b	
5.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2	☐	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ H ☐
5.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2	☐	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ H ☐
5.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2	☐	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ H ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]

U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORMSection 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
----	---	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY					
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE		County CALCASIEU			
	State LA		Zip Code 70669			
	TRI Facility Identification Number 70669 CNCLK OLDSP					
WHERE TO SEND COMPLETED FORMS:						
1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY						
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)						
3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility					
3.3	Technical Contact REID TREKELL				Telephone Number (include area code) (318) 491-5449	
3.4	Public Contact DON R. UNRUH				Telephone Number (include area code) (318) 491-5222	
3.5	SIC Code (4 digit) a. 2911		b. NA	c.	d.	e. f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692				b. NA	
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716				b. NA	
3.9	NPDES Permit Number(s) a. LA0003026				b. NA	
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE				b. NA	
	c.				d.	
	e.				f.	
4.1	Underground Injection Well Code (UIC) Identification Number(s) a. NA				b.	

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.

How many? _____



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
LEAD COMPOUNDS

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	(Reserved)
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) NA
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.)
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).) LEAD COMPOUNDS
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☐ As an impurity c. ☐ As an article component
3.2	Process the chemical: d. ☐ Repackaging only	a. ☐ As a reactant b. ☒ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

05 (enter code)	
-----------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	72	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	0	5.2b ☐	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☐ A	5.3.1a ☐ ☐ ☐	0	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R

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PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
LEAD COMPOUNDS

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) ☐ 1 ☐	[] [] []	NA	6.1.1b ☐	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []	NA	6.2.1b ☐	6.2.1.c ☐ M ☐
6.2.2 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2.2b ☐	6.2.2.c ☐ M ☐
6.2.3 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2.3b ☐	6.2.3.c ☐ M ☐

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
1a ☐	7.1b ☐ ☐ ☐	7.1c ☐	7.1d []	7.1e %	7.1f []	[]
7.2 ☐	7.2b ☐ ☐ ☐	7.2c ☐	7.2d []	7.2e %	7.2f []	[]
7.3a ☐	7.3b ☐ ☐ ☐	7.3c ☐	7.3d []	7.3e %	7.3f []	[]
7.4a ☐	7.4b ☐ ☐ ☐	7.4c ☐	7.4d []	7.4e %	7.4f []	[]
7.5a ☐	7.5b ☐ ☐ ☐	7.5c ☐	7.5d []	7.5e %	7.5f []	[]
7.6a ☐	7.6b ☐ ☐ ☐	7.6c ☐	7.6d []	7.6e %	7.6f []	[]
7.7a ☐	7.7b ☐ ☐ ☐	7.7c ☐	7.7d []	7.7e %	7.7f []	[]
7.8a ☐	7.8b ☐ ☐ ☐	7.8c ☐	7.8d []	7.8e %	7.8f []	[]
7.9a ☐	7.9b ☐ ☐ ☐	7.9c ☐	7.9d []	7.9e %	7.9f []	[]
7.10a ☐	7.10b ☐ ☐ ☐	7.10c ☐	7.10d []	7.10e %	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
☐ M ☐			☐ + ☐ - %	☐ R ☐



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

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(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
LEAD COMPOUNDS

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate			
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)							
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %	
	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %	
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %	

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate			
You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)							
6.1. Discharge to POTW (enter location number from Part II, Section 1.)	<u>1</u> ☐	[] [] []			6.1. <u>b</u> ☐		
6.2. Other off-site location (enter location number from Part II, Section 2.)	<u>2</u> ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> ☐ ☐ ☐	
6.3. Other off-site location (enter location number from Part II, Section 2.)	<u>2</u> ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> ☐ ☐ ☐	
6.4. Other off-site location (enter location number from Part II, Section 2.)	<u>2</u> ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> ☐ ☐ ☐	

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
7. <u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]

SAL 000003684



U.S. Environmental Protection Agency

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TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
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2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY					
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE			County CALCASTEU		
	State LA			Zip Code 70669		
	TRI Facility Identification Number 70669 CNCLK OLDSP					
WHERE TO SEND COMPLETED FORMS:						
1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY						
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)						
3.2	This report contains information for (Check only one): a. ☒ An entire facility b. ☐ Part of a facility					
3.3	Technical Contact REID TREKELL				Telephone Number (include area code) (318) 491-5449	
3.4	Public Contact DON R. UNRUH				Telephone Number (include area code) (318) 491-5222	
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
11	Underground Injection Well Code (UIC) Identification Number(s) a. NA					

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

Page 2 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name S. J. KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____

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CONOCO LAKE CHARLES REFINERY
MANGANESE COMPOUNDS

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) NA
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.)
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).) MANGANESE COMPOUNDS
----	--

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☐ As an impurity c. ☐ As an article component
3.2	Process the chemical: a. ☐ As a reactant d. ☐ Repackaging only	b. ☒ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

05 (enter code)	
-----------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater	
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate			
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	250	5.1b ☐		
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	0	5.2b ☐		
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☒ A	5.3.1a	☐ ☐ ☐	0	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a	☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a	☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐		
5.5 Releases to land on-site						
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐		
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐		
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐		
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐		

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

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EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

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CONOCO LAKE CHARLES REFINERY
MANGANESE COMPOUNDS

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[] [] []	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []	NA	6.2.1b	6.2.1.c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.3b	6.2.3.c M

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
a	7.1b	7.1c	7.1d []	7.1e %	7.1f [] []
7.	7.2b	7.2c	7.2d []	7.2e %	7.2f [] []
7.3a	7.3b	7.3c	7.3d []	7.3e %	7.3f [] []
7.4a	7.4b	7.4c	7.4d []	7.4e %	7.4f [] []
7.5a	7.5b	7.5c	7.5d []	7.5e %	7.5f [] []
7.6a	7.6b	7.6c	7.6d []	7.6e %	7.6f [] []
7.7a	7.7b	7.7c	7.7d []	7.7e %	7.7f [] []
7.8a	7.8b	7.8c	7.8d []	7.8e %	7.8f [] []
7.9a	7.9b	7.9c	7.9d []	7.9e %	7.9f [] []
7.10a	7.10b	7.10c	7.10d []	7.10e %	7.10f [] []

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-)) + - %	
M				R



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

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CONOCO LAKE CHARLES REFINERY
MANGANESE COMPOUNDS

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %
	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. <u>a</u> [] [] []			5.3. <u>b</u> ☐	5.3. <u>c</u> %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)						
6.1 Discharge to POTW (enter location number from Part II, Section 1.)	1 ☐	[] [] []			6.1. <u>b</u> ☐	
Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> M ☐ ☐
6.2 Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> M ☐ ☐
6.2 Other off-site location (enter location number from Part II, Section 2.)	2 ☐	[] [] []			6.2. <u>b</u> ☐	6.2. <u>c</u> M ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]
<u>a</u> ☐	7. <u>b</u> ☐ ☐ ☐	7. <u>c</u> ☐	7. <u>d</u> []	7. <u>e</u> %	7. <u>f</u> []	[]



U.S. Environmental Protection Agency

Page 1 of 5

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: Mr. Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
---	---	----------------------------

. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY			WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)		
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
4.1	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company E. I. DU PONT DE NEMOURS	4.2 Parent Company's Dun & Bradstreet Number 00-131-5704
--	---

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

PUBLICLY OWNED TREATMENT WORKS (POTWs)

POTW name		1.2 POTW name	
Street Address		Street Address	
County	City	County	City
Zip	State	Zip	State

OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
Identification Number (RCRA ID. No.) D000777201		EPA Identification Number (RCRA ID. No.) IAD001890367	
Street Address 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIST	City ST. JOHN THE BAPTIST
Zip 70663	State LA	Zip 70068	State LA
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

Off-site location name FELY-KLEEN CORPORATION		2.4 Off-site location name NA	
Identification Number (RCRA ID. No.) D053348108		EPA Identification Number (RCRA ID. No.)	
Street Address ATE HWY 148		Street Address	
County HENRY	City	County	City
Zip 40050	State	Zip	State
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

Off-site location name		2.6 Off-site location name	
Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
County	City	County	City
Zip	State	Zip	State
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

Check if additional pages of Part II are attached.
How many? _____

SAL 000003691



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
METHANOL

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)	
1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000067-56-1
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) METHANOL
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)	
Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)	

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)			
3.1	Manufacture the chemical:	If produce or import:	
	a. ☐ Produce	c. ☐ For on-site use/processing	d. ☐ For sale/distribution
	b. ☐ Import	e. ☐ As a byproduct	f. ☐ As an impurity
3.2	Process the chemical:	a. ☐ As a reactant b. ☒ As a formulation component c. ☐ As an article component	
	d. ☐ Repackaging only		
3.3	Otherwise use the chemical:	a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☒ Ancillary or other use	

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR	
6 (enter code)	

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE					
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	1,600	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	1,200	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☒ A	5.3.1a	0	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a		5.3.3b ☐	5.3.3c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)					
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

Page 4 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
METHANOL

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1		NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2		NA	6.2.1b	6.2.1.c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2			6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2			6.2.3b	6.2.3.c M

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a W	7.1b B 1 1	7.1c 4	7.1d	7.1e 100 %	7.1f	☒
7.2a	7.2b	7.2c	7.2d	7.2e %	7.2f	☐
7.3a	7.3b	7.3c	7.3d	7.3e %	7.3f	☐
7.4a	7.4b	7.4c	7.4d	7.4e %	7.4f	☐
7.5a	7.5b	7.5c	7.5d	7.5e %	7.5f	☐
7.6a	7.6b	7.6c	7.6d	7.6e %	7.6f	☐
7.7a	7.7b	7.7c	7.7d	7.7e %	7.7f	☐
7.8a	7.8b	7.8c	7.8d	7.8e %	7.8f	☐
7.9a	7.9b	7.9c	7.9d	7.9e %	7.9f	☐
7.10a	7.10b	7.10c	7.10d	7.10e %	7.10f	☐

☐ (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
M			Or Percent Change (check (+) or (-)) + - %	R



PART IV. SUPPLEMENTAL INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
METHANOL

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)					
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a ☐ [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %
	5.3. ☐	5.3. ☐ a ☐ [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a ☐ [] [] []		5.3. ☐ b ☐	5.3. ☐ c ☐ %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

		A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
		A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)					
5.1 Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []		6.1. ☐ b ☐	
5.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐
5.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐
5.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []		6.2. ☐ b ☐	6.2. ☐ c ☐ M ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e ☐ %	7. ☐ f []	[]



U.S. Environmental Protection Agency

Page 1 of 5

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
----	---	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude			Longitude		
	Degrees 30	Minutes 14	Seconds 36	Degrees 093	Minutes 16	Seconds 20
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
-----	--	-----	---

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name S. CITY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____



CONOCO LAKE CHARLES REFINERY
METHYL TERT-BUTYL ETHER

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 001634-04-4
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) METHYL TERT-BUTYL ETHER
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☐ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☐ As an impurity
3.2	Process the chemical: a. ☒ As a reactant d. ☐ Repackaging only	b. ☒ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

05 (enter code)	
-----------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	790	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	1,120	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☐	5.3.1a ☐ ☐ ☐	NA	5.3.1b ☐	5.3.1c %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐		5.3.2b ☐	5.3.2c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



CONOCO LAKE CHARLES REFINERY
METHYL TERT-BUTYL ETHER

(This space for your optional use.)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

A. Total Transfers (pounds / year)		A.1 Reporting Ranges 1-10 11-499 500-999		A.2 Enter Estimate		B. Basis of Estimate (enter code)		C. Type of Treatment Disposal (enter code)	
6.1.1 (enter location number 1.) Discharge to POTW		1		NA		6.1.1b			
6.2.1 (enter location number 2.) Other off-site location		2		NA		6.2.1b		6.2.1c	
6.2.2 (enter location number 2.) Other off-site location		2				6.2.2b		6.2.2c	
6.2.3 (enter location number 2.) Other off-site location		2				6.2.3b		6.2.3c	

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastewater containing the chemical or chemical category.

A. General Wastestream (enter code)		B. Treatment Method (enter code)		C. Range of Concentration (enter code)		D. Sequential Treatment (check if applicable)		E. Treatment Efficiency Estimate		F. Based on Data? Yes No	
7.1a		7.1b		7.1c		7.1d		7.1e		7.1f	
7.2a		7.2b		7.2c		7.2d		7.2e		7.2f	
7.3a		7.3b		7.3c		7.3d		7.3e		7.3f	
7.4a		7.4b		7.4c		7.4d		7.4e		7.4f	
7.5a		7.5b		7.5c		7.5d		7.5e		7.5f	
7.6a		7.6b		7.6c		7.6d		7.6e		7.6f	
7.7a		7.7b		7.7c		7.7d		7.7e		7.7f	
7.8a		7.8b		7.8c		7.8d		7.8e		7.8f	
7.9a		7.9b		7.9c		7.9d		7.9e		7.9f	
7.10a		7.10b		7.10c		7.10d		7.10e		7.10f	

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)		B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index		D. Reason for Action (enter code)	
		Current Year (pounds/year)		Or Percent Change (check (+) or (-))		R	



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
METHYL TERT-BUTYL ETHER

This section is for you to provide additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Release (pounds / year)		B. Basis of Estimate	C. % From Stormwater
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate	(enter code in box provided)	
5.3 Discharges to receiving streams or water bodies	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c %
	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c %
(Enter letter code for stream from Part I, Section 5.10 in the box provided.)	5.3. ☐ 5.3. ☐ a [] [] []		5.3. ☐ b ☐	5.3. ☐ c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate	C. Type of Treatment Disposal
	A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate	(enter code in box provided)	
6.1. Discharge to POTW (enter location number from Part II, Section 1.) ☐ 1 ☐	[] [] []		6.1. ☐ b ☐	
6.2. Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2. ☐ b ☐	6.2. ☐ c H ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2. ☐ b ☐	6.2. ☐ c H ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2. ☐ b ☐	6.2. ☐ c H ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
7. ☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []



U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PH-223), US EPA, 401 M St. SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
----	--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASTEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. ☒ An entire facility b. ☐ Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	a. SIC Code (4 digit) 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? ☐ Yes ☒ No		Is location under control of reporting facility or parent company? ☐ Yes ☒ No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? ☐ Yes ☐ No		Is location under control of reporting facility or parent company? ☐ Yes ☐ No	

☐ Check if additional pages of Part II are attached.
How many? _____



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
MOLYBDENUM TRIOXIDE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 001313-27-5
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) MOLYBDENUM TRIOXIDE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☐ As an impurity c. ☐ As an article component
3.2	Process the chemical: a. ☐ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	
3.3	Otherwise use the chemical: a. ☒ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

015	(enter code)	
-----	--------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)					
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	120	5.1b ☒	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	NA	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☐	5.3.1a ☐ ☐ ☐	NA	5.3.1b ☐	5.3.1c %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐		5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)					
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
MOLYBDENUM TRIOXIDE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[] [] []	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []	NA	6.2.1b	6.2.1.c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.3b	6.2.3.c M

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a	7.1b	7.1c	7.1d []	7.1e %	7.1f []	[]
7.2a	7.2b	7.2c	7.2d []	7.2e %	7.2f []	[]
7.3a	7.3b	7.3c	7.3d []	7.3e %	7.3f []	[]
7.4a	7.4b	7.4c	7.4d []	7.4e %	7.4f []	[]
7.5a	7.5b	7.5c	7.5d []	7.5e %	7.5f []	[]
7.6a	7.6b	7.6c	7.6d []	7.6e %	7.6f []	[]
7.7a	7.7b	7.7c	7.7d []	7.7e %	7.7f []	[]
7.8a	7.8b	7.8c	7.8d []	7.8e %	7.8f []	[]
7.9a	7.9b	7.9c	7.9d []	7.9e %	7.9f []	[]
7.10a	7.10b	7.10c	7.10d []	7.10e %	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
M			+ %	R



PART IV. SUPPLEMENTAL INFORMATION

This section is for you to use if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (5.3.4, 6.1.2, 7.11).

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
MOLYBDENUM TRIOXIDEADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % from Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %
	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)						
1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1	☐	[] [] []		6.1. ☐ b	
2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2	☐	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ M ☐
3. Other off-site location (enter location number from Part II, Section 2.)	☐ 2	☐	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ M ☐
4. Other off-site location (enter location number from Part II, Section 2.)	☐ 2	☐	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ M ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]



U.S. Environmental Protection Agency

Page 1 of 5

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: IRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20503.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1,2; Attach substantiation forms.) [X] No (Do not answer 1,2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
----	---	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

WHERE TO SEND COMPLETED FORMS:

Facility or Establishment Name

CONOCO LAKE CHARLES REFINERY

Street Address

OLD SPANISH TRAIL

City

WESTLAKE

County

CALCASTEU

State

LA

Zip Code

70669

TRI Facility Identification Number

70669 CNCLK OLDSP

1. EPCRA REPORTING CENTER

P.O. BOX 23779

WASHINGTON, DC 20026-3779

ATTN: TOXIC CHEMICAL RELEASE INVENTORY

2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility

3.3	Technical Contact REID TREKELL	Telephone Number (include area code) (318) 491-5449
-----	-----------------------------------	--

3.4	Public Contact DON R. UNRUH	Telephone Number (include area code) (318) 491-5222
-----	--------------------------------	--

3.5	SIC Code (4 digit) a. 2911	b. NA	c. NA	d. NA	e. NA	f. NA
-----	-------------------------------	-------	-------	-------	-------	-------

3.6	Latitude			Longitude		
	Degrees 30	Minutes 14	Seconds 36	Degrees 093	Minutes 16	Seconds 20

3.7	Dun & Bradstreet Number(s) a. 00-842-7692	b. NA
-----	--	-------

3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716	b. NA
-----	---	-------

3.9	NPDES Permit Number(s) a. LA0003026	b. NA
-----	--	-------

3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE	b. NA
------	--	-------

	c.	d.
--	----	----

	e.	f.
--	----	----

3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA	b.
------	---	----

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
-----	--	-----	---



EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

Page 2 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name S. CITY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____

CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000091-20-3
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) NAPHTHALENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 01-10-2001 BY 60322 UCBAW

2.	MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)
	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation)).

ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (check all that apply.)

3.1	Manufacture the chemical:	a. [] Produce	c. [] For on-site use/processing	d. [] For sale/distribution
		b. [] Import	e. [] As a byproduct	f. [] As an impurity
			b. [] As a formulation component	c. [] As an article component
3.2	Process the chemical:	a. [X] As a reactant		
		d. [] Repackaging only		
3.3	Otherwise use the chemical:	a. [] As a chemical	b. [] As a manufacturing aid	c. [X] Ancillary or other use

MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[REDACTED] (enter code) 07

RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

A. Total Release (pounds / year)		A-1 Reporting Ranges 1-10 11-499 500-999 Estimate	(enter code)
B. Basis of Estimate		A-2 Enter Estimate	(enter code)
C. % from Stormwater			

5.1 Fugitive or non-point air emissions	5.1a	[]	[]	[]	[]	[]	14,000	5.1b	☐	
5.2 Stack or point air emissions	5.2a	[]	[]	[]	[]	[]	3,700	5.2b	☐	
5.3 Discharges to receiving streams or water bodies	5.3.1	☒ A	[]	[]	[]	[]	33	5.3.1b	☒ M	5.3.1c NA
	5.3.2	☐	[]	[]	[]	[]	NA	5.3.2b	☐	5.3.2c
	5.3.3	☐	[]	[]	[]	[]		5.3.3b	☐	5.3.3c
5.4 Underground injection on-site	5.4a	[]	[]	[]	[]	[]	NA	5.4b	☐	
5.5 Releases to land on-site	5.5.1 Landfill	[]	[]	[]	[]	[]	NA	5.5.1b	☐	
5.5.2 Land treatment/application farming	5.5.2a	[]	[]	[]	[]	[]	NA	5.5.2b	☐	
5.5.3 Surface impoundment	5.5.3a	[]	[]	[]	[]	[]	NA	5.5.3b	☐	
5.5.4 Other disposal	5.5.4a	[]	[]	[]	[]	[]	NA	5.5.4b	☐	

[] (Check if additional information is provided on Part IV - Supplemental Information.)

EPA Form 9350-1 (Rev. 1-91) Previous editions are obsolete.

313 ADVISOR (TM) - Version 3.0

SAL 000003707



EPA FORM R

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PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
NAPHTHALENE

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	1 1 1	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 1	1 1 1	320	6.2.1b 0	6.2.1.c M 7 2
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2 2	1 1 1	1	6.2.2b 0	6.2.2.c M 5 0
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2 3	1 1 1	0	6.2.3b 0	6.2.3.c M 6 9

[] (Check if additional information is provided on Part IV - Supplemental Information.)

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a W	7.1b B 1 1	7.1c 4	7.1d 1	7.1e 99 %	7.1f 1	☒
7 A	7.2b A 0 7	7.2c 2	7.2d 1	7.2e 88 %	7.2f ☒	☐
7.3a	7.3b	7.3c	7.3d 1	7.3e %	7.3f 1	☐
7.4a	7.4b	7.4c	7.4d 1	7.4e %	7.4f 1	☐
7.5a	7.5b	7.5c	7.5d 1	7.5e %	7.5f 1	☐
7.6a	7.6b	7.6c	7.6d 1	7.6e %	7.6f 1	☐
7.7a	7.7b	7.7c	7.7d 1	7.7e %	7.7f 1	☐
7.8a	7.8b	7.8c	7.8d 1	7.8e %	7.8f 1	☐
7.9a	7.9b	7.9c	7.9d 1	7.9e %	7.9f 1	☐
7.10a	7.10b	7.10c	7.10d 1	7.10e %	7.10f 1	☐

[] (Check if additional information is provided on Part IV - Supplemental Information.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
M		Or Percent Change (check (+) or (-)) + - %		R

SAL 000003708



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

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(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
NAPHTHALENE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

		A. Total Release (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate			
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. _a [] [] []			5.3. _b ☐	5.3. _c %
	5.3. ☐	5.3. _a [] [] []			5.3. _b ☐	5.3. _c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. _a [] [] []			5.3. _b ☐	5.3. _c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

		A. Total Transfers (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
		A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate			
You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)						
1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []			6.1. _b ☐	
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c ☐ ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c ☐ ☐ ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. _b ☐	6.2. _c ☐ ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	Yes	No
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]
7. _a ☐	7. _b ☐ ☐ ☐	7. _c ☐	7. _d []	7. _e %	7. _f []	[]	[]

SAL 000003709



U.S. Environmental Protection Agency

Page 1 of 5

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St. SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2010-0093), Washington, D.C., 20603.

1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
--	---	----------------------------

. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					

3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility				
-----	--	--	--	--	--

3.3	Technical Contact REID TREKELL	Telephone Number (include area code) (318) 491-5449
-----	-----------------------------------	--

3.4	Public Contact DON R. UNRUH	Telephone Number (include area code) (318) 491-5222
-----	--------------------------------	--

3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
-----	-------------------------------	-------	----	----	----	----

3.6	Latitude			Longitude		
	Degrees 30	Minutes 14	Seconds 36	Degrees 093	Minutes 16	Seconds 20

3.7	Dun & Bradstreet Number(s) a. 00-842-7692	b. NA
-----	--	-------

3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716	b. NA
-----	---	-------

3.9	NPDES Permit Number(s) a. LA0003026	b. NA
-----	--	-------

3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE	b. NA
	c.	d.
	e.	f.

3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA	b.

3.12		

. PARENT COMPANY INFORMATION	
------------------------------	--

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
-----	--	-----	---

SAL 000003710



EPA FORM R

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PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	
2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	
[] Check if additional pages of Part II are attached. How many? _____			



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
PHOSPHORIC ACID

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 007664-38-2
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) PHOSPHORIC ACID
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☐ As an impurity
3.2	Process the chemical: d. ☐ Repackaging only	a. ☐ As a reactant b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☒ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

04	(enter code)
----	--------------

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	NA	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	NA	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☒	5.3.1a ☐ ☐ ☐	0	5.3.1b ☒	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

Page 4 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
PHOSPHORIC ACID

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) ☐ 1 ☐	[] [] []	NA	6.1.1b ☐	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []	NA	6.2.1b ☐	6.2.1.c M ☐ ☐
6.2.2 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2.2b ☐	6.2.2.c M ☐ ☐
6.2.3 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2.3b ☐	6.2.3.c M ☐ ☐

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a ☐ W	7.1b ☐ C ☐ 1 ☐ 1	7.1c ☐ 1	7.1d []	7.1e 100 %	7.1f ☒ X	[]
7. ☐ S	7.2b ☐ C ☐ 1 ☐ 1	7.2c ☐ 1	7.2d []	7.2e 100 %	7.2f []	☒ X
7.3a ☐	7.3b ☐ ☐ ☐	7.3c ☐	7.3d []	7.3e %	7.3f []	[]
7.4a ☐	7.4b ☐ ☐ ☐	7.4c ☐	7.4d []	7.4e %	7.4f []	[]
7.5a ☐	7.5b ☐ ☐ ☐	7.5c ☐	7.5d []	7.5e %	7.5f []	[]
7.6a ☐	7.6b ☐ ☐ ☐	7.6c ☐	7.6d []	7.6e %	7.6f []	[]
7.7a ☐	7.7b ☐ ☐ ☐	7.7c ☐	7.7d []	7.7e %	7.7f []	[]
7.8a ☐	7.8b ☐ ☐ ☐	7.8c ☐	7.8d []	7.8e %	7.8f []	[]
7.9a ☐	7.9b ☐ ☐ ☐	7.9c ☐	7.9d []	7.9e %	7.9f []	[]
7.10a ☐	7.10b ☐ ☐ ☐	7.10c ☐	7.10d []	7.10e %	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
☐ M ☐			☐ + ☐ - %	☐ R ☐



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
PHOSPHORIC ACID

Use this section if you need additional space for answers to questions in Part III, Section 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate			
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	
	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	
	(Enter letter code for stream from Part I Section 3.10 in the box provided.) 5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate			
1. Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1		[] [] []		6.1. ☐ b		
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2		[] [] []		6.2. ☐ b	6.2. ☐ c M ☐ ☐	
6. Other off-site location (enter location number from Part II, Section 2.)	☐ 2		[] [] []		6.2. ☐ b	6.2. ☐ c M ☐ ☐	
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2		[] [] []		6.2. ☐ b	6.2. ☐ c M ☐ ☐	

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]

SAL 000003714

U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORMSection 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
----	---	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

Facility or Establishment Name CONOCO LAKE CHARLES REFINERY				WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
Street Address OLD SPANISH TRAIL							
City WESTLAKE		County CALCASTEU					
State LA		Zip Code 70669					
TRI Facility Identification Number 70669 CNCLK OLDSP							
3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility						
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449			
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222			
3.5	SIC Code (4 digit) a. 2911		b. NA	c.	d.	e. f.	
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20			
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA			
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716			b. NA			
3.9	NPDES Permit Number(s) a. LA0003026			b. NA			
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA			
	c.			d.			
	e.			f.			
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.			

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____



CONOCO LAKE CHARLES REFINERY
PROPYLENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000115-07-1
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) PROPYLENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☐ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☒ As an impurity
3.2	Process the chemical: a. ☒ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☒ Ancillary or other use

MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

08	(enter code)	
----	--------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	110,000	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	NA	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☐	5.3.1a ☐ ☐ ☐	NA	5.3.1b ☐	5.3.1c %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐		5.3.2b ☐	5.3.2c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

Page 4 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
PROPYLENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) ☐ 1 ☐	[] [] []	NA	6.1.1b ☐	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []	NA	6.2.1b ☐	6.2.1.c ☐ M ☐
6.2.2 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2.2b ☐	6.2.2.c ☐ M ☐
6.2.3 Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2.3b ☐	6.2.3.c ☐ M ☐

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a ☐	7.1b ☐ ☐ ☐	7.1c ☐	7.1d []	7.1e %	7.1f []	[]
7.2a ☐	7.2b ☐ ☐ ☐	7.2c ☐	7.2d []	7.2e %	7.2f []	[]
7.3a ☐	7.3b ☐ ☐ ☐	7.3c ☐	7.3d []	7.3e %	7.3f []	[]
7.4a ☐	7.4b ☐ ☐ ☐	7.4c ☐	7.4d []	7.4e %	7.4f []	[]
7.5a ☐	7.5b ☐ ☐ ☐	7.5c ☐	7.5d []	7.5e %	7.5f []	[]
7.6a ☐	7.6b ☐ ☐ ☐	7.6c ☐	7.6d []	7.6e %	7.6f []	[]
7.7a ☐	7.7b ☐ ☐ ☐	7.7c ☐	7.7d []	7.7e %	7.7f []	[]
7.8a ☐	7.8b ☐ ☐ ☐	7.8c ☐	7.8d []	7.8e %	7.8f []	[]
7.9a ☐	7.9b ☐ ☐ ☐	7.9c ☐	7.9d []	7.9e %	7.9f []	[]
7.10a ☐	7.10b ☐ ☐ ☐	7.10c ☐	7.10d []	7.10e %	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
☐ M ☐			Or Percent Change (check (+) or (-)) ☐ + ☐ - ☐ %	☐ R ☐



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
PROPYLENE

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.3 Discharges to receiving streams or water bodies 5.3. ☐	5.3. a ☐ [] [] []		5.3. b ☐	5.3. c ☐ %
5.3. ☐	5.3. a ☐ [] [] []		5.3. b ☐	5.3. c ☐ %
(Enter letter code for stream from Part I Section 3.10 in the box provided.) 5.3. ☐	5.3. a ☐ [] [] []		5.3. b ☐	5.3. c ☐ %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
	A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
Discharge to POTW (enter location number from Part II, Section 1.) ☐ 1 ☐	[] [] []		6.1. b ☐	
6.2. Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2. b ☐	6.2. c ☐ M ☐
6.2. Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2. b ☐	6.2. c ☐ M ☐
6.2. Other off-site location (enter location number from Part II, Section 2.) ☐ 2 ☐	[] [] []		6.2. b ☐	6.2. c ☐ M ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7. a ☐	7. b ☐	7. c ☐	7. d []	7. e %	7. f [] []
7. a ☐	7. b ☐	7. c ☐	7. d []	7. e %	7. f [] []
7. a ☐	7. b ☐	7. c ☐	7. d []	7. e %	7. f [] []
7. a ☐	7. b ☐	7. c ☐	7. d []	7. e %	7. f [] []
7. a ☐	7. b ☐	7. c ☐	7. d []	7. e %	7. f [] []
7. a ☐	7. b ☐	7. c ☐	7. d []	7. e %	7. f [] []
7. a ☐	7. b ☐	7. c ☐	7. d []	7. e %	7. f [] []
7. a ☐	7. b ☐	7. c ☐	7. d []	7. e %	7. f [] []

SAL 000003719

U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORMSection 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
----	---	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASIEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					
3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility					
3.3	Technical Contact REID TREKELL		Telephone Number (include area code) (318) 491-5449			
3.4	Public Contact DON R. UNRUH		Telephone Number (include area code) (318) 491-5222			
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude			Longitude		
	Degrees 30	Minutes 14	Seconds 36	Degrees 093	Minutes 16	Seconds 20
3.7	Dun & Bradstreet Number(s) a. 00-842-7692		b. NA			
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716		b. NA			
3.9	NPDES Permit Number(s) a. LA0003026		b. NA			
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE		b. NA			
	c.		d.			
	e.		f.			
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA		b.			

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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SAL 0000022



EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASTEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

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(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
STYRENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)	
1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000100-42-5
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) STYRENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)	
Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)	

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)			
3.1	Manufacture the chemical:	If produce or import:	
	a. ☐ Produce	c. ☐ For on-site use/processing	d. ☐ For sale/distribution
	b. ☐ Import	e. ☐ As a byproduct	f. ☐ As an impurity
3.2	Process the chemical:		
	a. ☒ As a reactant	b. ☐ As a formulation component	c. ☐ As an article component
	d. ☐ Repackaging only		
3.3	Otherwise use the chemical:		
	a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR	
05 (enter code)	

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE					
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	1,200	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	4	5.2b ☐	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☒ A	5.3.1a ☐ ☐ ☐	17	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site	5.5.1 Landfill	5.5.1a ☐ ☐ ☐	NA	5.5.1b ☐	
	5.5.2 Land treatment/application farming	5.5.2a ☐ ☐ ☐	NA	5.5.2b ☐	
	5.5.3 Surface impoundment	5.5.3a ☐ ☐ ☐	NA	5.5.3b ☐	
	5.5.4 Other disposal	5.5.4a ☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R

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PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
STYRENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	1 1 1	NA	6.1.1b 1	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	2 2 2	NA	6.2.1b 1	6.2.1.c M 1 1
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	2 2 2		6.2.2b 1	6.2.2.c M 1 1
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	2 2 2		6.2.3b 1	6.2.3.c M 1 1

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.1a W	7.1b B111	7.1c 4	7.1d 1	7.1e 90 %	7.1f 1 <input checked="" type="text" value="X"/>
7.2a 1	7.2b 111	7.2c 1	7.2d 1	7.2e %	7.2f 1 1
7.3a 1	7.3b 111	7.3c 1	7.3d 1	7.3e %	7.3f 1 1
7.4a 1	7.4b 111	7.4c 1	7.4d 1	7.4e %	7.4f 1 1
7.5a 1	7.5b 111	7.5c 1	7.5d 1	7.5e %	7.5f 1 1
7.6a 1	7.6b 111	7.6c 1	7.6d 1	7.6e %	7.6f 1 1
7.7a 1	7.7b 111	7.7c 1	7.7d 1	7.7e %	7.7f 1 1
7.8a 1	7.8b 111	7.8c 1	7.8d 1	7.8e %	7.8f 1 1
7.9a 1	7.9b 111	7.9c 1	7.9d 1	7.9e %	7.9f 1 1
7.10a 1	7.10b 111	7.10c 1	7.10d 1	7.10e %	7.10f 1 1

☐ (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or Percent Change (check (+) or (-))	
M			1 1 %	R 1



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

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(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
STYRENE

Use this section if you need additional space for answers to questions in
Part I. Number the lines used sequentially from lines in prior sections
(e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)		B. Basis of Estimate	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate	(enter code in box provided)	
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)						
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a [] [] []			5.3. ☐ b	5.3. ☐ c %
	5.3. ☐	5.3. ☐ a [] [] []			5.3. ☐ b	5.3. ☐ c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a [] [] []			5.3. ☐ b	5.3. ☐ c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)		B. Basis of Estimate	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate	(enter code in box provided)	
You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)						
Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []			6.1. ☐ b	
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ ☐ ☐
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ ☐ ☐
Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ ☐ ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
☐ a ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []
☐ ☐	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f [] []

SAL 000003724



U.S. Environmental Protection Agency

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TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: IRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.1 Are you claiming the chemical identity on page 3 trade secret? 1. [] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: [] Sanitized [] Unsanitized	1.3 Reporting Year 1990
--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER
P.O. BOX 23779
WASHINGTON, DC 20026-3779
ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

Facility or Establishment Name CONOCO LAKE CHARLES REFINERY	
Street Address OLD SPANISH TRAIL	
City WESTLAKE	County CALCASIEU
State LA	Zip Code 70669
TRI Facility Identification Number 70669 CNCLK OLDSP	

3.2	This report contains information for (Check only one): a. [X] An entire facility b. [] Part of a facility					
3.3	Technical Contact REID TREKELL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

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PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAR ETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____

SAL 000003726



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

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CONOCO LAKE CHARLES REFINERY
SULFURIC ACID

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 007664-93-9
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) SULFURIC ACID
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☐ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☒ As an impurity
3.2	Process the chemical: a. ☐ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☒ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☒ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

07	(enter code)
----	--------------

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2.)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % from Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☒ ☐		5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	480	5.2b ☐	
5.3 Discharges to receiving streams or water bodies	5.3.1 ☒ A	5.3.1a ☐ ☐ ☐	0	5.3.1b ☒ M	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



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PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

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CONOCO LAKE CHARLES REFINERY
SULFURIC ACID

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	[] [] []	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []	NA	6.2.1b	6.2.1.c H
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.2b	6.2.2.c H
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	[] [] []		6.2.3b	6.2.3.c H

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

General Wastream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a W	7.1b C111	7.1c 1	7.1d []	7.1e 100 %	7.1f ☒	[]
7.2a	7.2b	7.2c	7.2d []	7.2e %	7.2f []	[]
7.3a	7.3b	7.3c	7.3d []	7.3e %	7.3f []	[]
7.4a	7.4b	7.4c	7.4d []	7.4e %	7.4f []	[]
7.5a	7.5b	7.5c	7.5d []	7.5e %	7.5f []	[]
7.6a	7.6b	7.6c	7.6d []	7.6e %	7.6f []	[]
7.7a	7.7b	7.7c	7.7d []	7.7e %	7.7f []	[]
7.8a	7.8b	7.8c	7.8d []	7.8e %	7.8f []	[]
7.9a	7.9b	7.9c	7.9d []	7.9e %	7.9f []	[]
7.10a	7.10b	7.10c	7.10d []	7.10e %	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
H		Or Percent Change (check (+) or (-)) + - %		R



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

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CONOCO LAKE CHARLES REFINERY
SULFURIC ACID

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

			A. Total Release (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
			A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate			
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	
	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	
	(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

			A. Total Transfers (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
			A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate			
6.1 Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1		[] [] []		6.1. ☐ b		
6.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2		[] [] []		6.2. ☐ b	6.2. ☐ c M ☐ ☐	
6.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2		[] [] []		6.2. ☐ b	6.2. ☐ c M ☐ ☐	
6.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2		[] [] []		6.2. ☐ b	6.2. ☐ c M ☐ ☐	

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]

SAL 000003729

U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORMSection 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART I.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 54 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460. Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.1 Are you claiming the chemical identity on page 3 trade secret? 1. ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
---	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)	
Street Address OLD SPANISH TRAIL			
City WESTLAKE	County CALCASIEU		
State LA	Zip Code 70669		
TRI Facility Identification Number 70669 CNCLK OLDSP			

3.2 This report contains information for (Check only one):	a. ☒ An entire facility		b. ☐ Part of a facility		
3.3 Technical Contact REID TREKELL	Telephone Number (include area code) (318) 491-5449				
3.4 Public Contact DON R. UNRUH	Telephone Number (include area code) (318) 491-5222				
3.5 SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
Latitude			Longitude		
3.6 Degrees 30	Minutes 14	Seconds 36	Degrees 093	Minutes 16	Seconds 20
3.7 Dun & Bradstreet Number(s) a. 00-842-7692	b. NA				
3.8 EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716	b. NA				
3.9 NPDES Permit Number(s) a. LA0003026	b. NA				
3.10 Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE	b. NA				
c.	d.				
e.	f.				
3.11 Underground Injection Well Code (UIC) Identification Number(s) a. NA	b.				

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company E. I. DU PONT DE NEMOURS	4.2 Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R

Page 2 of 5

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name SAFETY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____

SAL 000003722



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
TOLUENE

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 000108-88-3
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) TOLUENE
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. ☒ Produce	If produce or import:	
		b. ☐ Import	c. ☒ For on-site use/processing	d. ☐ For sale/distribution
			e. ☐ As a byproduct	f. ☒ As an impurity
3.2	Process the chemical:	a. ☒ As a reactant	b. ☐ As a formulation component	c. ☐ As an article component
		d. ☐ Repackaging only		
3.3	Otherwise use the chemical:	a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

08	(enter code)	
----	--------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	50,000	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	6,600	5.2b ☐	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☐ A	5.3.1a ☐ ☐ ☐	33	5.3.1b ☐ M	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R

Page 4 of 5

PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
TOLUENE

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1 ☐	[] [] []	NA	6.1.1b ☐
6.2.1 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ 1	[] [] []	70	6.2.1b ☐ 0 6.2.1.c M 7 2
6.2.2 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ 2	[] [] []	2	6.2.2b ☐ 0 6.2.2.c M 5 0
6.2.3 Other off-site location (enter location number from Part II, Section 2.)	☐ 2 ☐ 3	[] [] []	1	6.2.3b ☐ 0 6.2.3.c M 6 9

[] (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a W	7.1b B 1 1	7.1c 3	7.1d []	7.1e 99 x	7.1f []	[X]
7.2a A	7.2b A 0 7	7.2c 2	7.2d []	7.2e 88 x	7.2f [X]	[]
7.3a	7.3b	7.3c	7.3d []	7.3e x	7.3f []	[]
7.4a	7.4b	7.4c	7.4d []	7.4e x	7.4f []	[]
7.5a	7.5b	7.5c	7.5d []	7.5e x	7.5f []	[]
7.6a	7.6b	7.6c	7.6d []	7.6e x	7.6f []	[]
7.7a	7.7b	7.7c	7.7d []	7.7e x	7.7f []	[]
7.8a	7.8b	7.8c	7.8d []	7.8e x	7.8f []	[]
7.9a	7.9b	7.9c	7.9d []	7.9e x	7.9f []	[]
7.10a	7.10b	7.10c	7.10d []	7.10e x	7.10f []	[]

[] (Check if additional information is provided on Part IV - Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
M			Or Percent Change (check (+) or (-)) ☐ + ☐ - x	R



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
TOLUENE

Use this section if you need additional space for answers to questions in Part III, Section 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

		A. Total Release (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a	[] [] []	5.3. ☐ b	5.3. ☐ c %
	5.3. ☐	5.3. ☐ a	[] [] []	5.3. ☐ b	5.3. ☐ c %
	5.3. ☐	5.3. ☐ a	[] [] []	5.3. ☐ b	5.3. ☐ c %

(Enter letter code for stream
from Part I Section 3.10 in
the box provided.)

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

		A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal
		A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1	[] [] []		6.1. ☐ b	
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ H ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ H ☐
6.2. Other off-site location (enter location number from Part II, Section 2.)	☐ 2	[] [] []		6.2. ☐ b	6.2. ☐ c ☐ H ☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7. ☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
7. ☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]

U.S. Environmental Protection Agency
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORMSection 313 of the Emergency Planning and Community Right-to-Know Act of 1986,
known as Title III of the Superfund Amendments and Reauthorization Act.

EPA FORM

PART 1.
FACILITY
IDENTIFICATION
INFORMATION

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2070-0093), Washington, D.C., 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)	1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized	1.3 Reporting Year 1990
----	--	---	----------------------------

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

DON R. UNRUH

REFINERY MANAGER

Signature

Date signed

06/21/91

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name CONOCO LAKE CHARLES REFINERY		WHERE TO SEND COMPLETED FORMS: 1. EPCRA REPORTING CENTER P.O. BOX 23779 WASHINGTON, DC 20026-3779 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)			
	Street Address OLD SPANISH TRAIL					
	City WESTLAKE	County CALCASTEU				
	State LA	Zip Code 70669				
	TRI Facility Identification Number 70669 CNCLK OLDSP					

3.2	This report contains information for (Check only one): a. ☒ An entire facility b. ☐ Part of a facility					
3.3	Technical Contact REID TREKEIL			Telephone Number (include area code) (318) 491-5449		
3.4	Public Contact DON R. UNRUH			Telephone Number (include area code) (318) 491-5222		
3.5	SIC Code (4 digit) a. 2911	b. NA	c.	d.	e.	f.
3.6	Latitude Degrees Minutes Seconds 30 14 36			Longitude Degrees Minutes Seconds 093 16 20		
3.7	Dun & Bradstreet Number(s) a. 00-842-7692			b. NA		
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716			b. NA		
3.9	NPDES Permit Number(s) a. LA0003026			b. NA		
3.10	Receiving Streams or Water Bodies (enter one name per box) a. BAYOU VERDINE			b. NA		
	c.			d.		
	e.			f.		
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. NA			b.		

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company E. I. DU PONT DE NEMOURS	4.2	Parent Company's Dun & Bradstreet Number 00-131-5704
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EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC
CHEMICALS ARE TRANSFERRED IN WASTES

Page 2 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name NA		1.2 POTW name	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name CHEMICAL WASTE MANAGEMENT		2.2 Off-site location name E. I. DU PONT DE NEMOURS PONCHATRAIN	
EPA Identification Number (RCRA ID. No.) LAD000777201		EPA Identification Number (RCRA ID. No.) LAD001890367	
Street Address RT. 2, JOHN BRANNON RD.		Street Address RIVER ROAD	
City CARLYSS	County CALCASIEU	City LA PLACE	County ST. JOHN THE BAPTIS
State LA	Zip 70663	State LA	Zip 70068
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [X] No	

2.3 Off-site location name S. CITY-KLEEN CORPORATION		2.4 Off-site location name NA	
EPA Identification Number (RCRA ID. No.) KYD053348108		EPA Identification Number (RCRA ID. No.)	
Street Address STATE HWY 148		Street Address	
City NEW CASTLE	County HENRY	City	County
State KY	Zip 40050	State	Zip
Is location under control of reporting facility or parent company? [] Yes [X] No		Is location under control of reporting facility or parent company? [] Yes [] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [] Yes [] No		Is location under control of reporting facility or parent company? [] Yes [] No	

[] Check if additional pages of Part II are attached.
How many? _____



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION

Page 3 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
XYLENE (MIXED ISOMERS)

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) NA
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.)
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked Yes. Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2.	Generic Chemical Name Provided by Supplier (Limit name to a max of 70 characters. (eg. No.'s, letters, spaces, punctuation).) XYLENE (MIXED ISOMERS)
----	---

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical: a. ☒ Produce b. ☐ Import	If produce or import: c. ☒ For on-site use/processing e. ☐ As a byproduct	d. ☐ For sale/distribution f. ☒ As an impurity
3.2	Process the chemical: a. ☒ As a reactant d. ☐ Repackaging only	b. ☐ As a formulation component	c. ☐ As an article component
3.3	Otherwise use the chemical: a. ☐ As a chemical processing aid	b. ☐ As a manufacturing aid	c. ☐ Ancillary or other use

MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

08	(enter code)	
----	--------------	--

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds / year)		B. Basis of Estimate (enter code)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.1 Fugitive or non-point air emissions	5.1a	☐ ☐ ☐	45,000	5.1b ☐	
5.2 Stack or point air emissions	5.2a	☐ ☐ ☐	2,200	5.2b ☐	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.1 ☒ A	5.3.1a ☐ ☐ ☐	17	5.3.1b ☐	5.3.1c NA %
	5.3.2 ☐	5.3.2a ☐ ☐ ☐	NA	5.3.2b ☐	5.3.2c %
	5.3.3 ☐	5.3.3a ☐ ☐ ☐		5.3.3b ☐	5.3.3c %
5.4 Underground Injection on-site	5.4a	☐ ☐ ☐	NA	5.4b ☐	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	☐ ☐ ☐	NA	5.5.1b ☐	
5.5.2 Land treatment/application farming	5.5.2a	☐ ☐ ☐	NA	5.5.2b ☐	
5.5.3 Surface impoundment	5.5.3a	☐ ☐ ☐	NA	5.5.3b ☐	
5.5.4 Other disposal	5.5.4a	☐ ☐ ☐	NA	5.5.4b ☐	

☐ (Check if additional information is provided on Part IV - Supplemental Information.)



EPA FORM R
PART III. CHEMICAL-SPECIFIC INFORMATION
(continued)

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(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
XYLENE (MIXED ISOMERS)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)	A. Total Transfers (pounds / year)		B. Basis of Estimate (enter code)	C. Type of Treatment Disposal (enter code)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1	1 1 1	NA	6.1.1b	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 1	1 1 1	0	6.2.1b 0	6.2.1.c N 7 2
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2	1 1 1	NA	6.2.2b	6.2.2.c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2	1 1 1		6.2.3b	6.2.3.c M

☐ (Check if additional information is provided on Part IV - Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
7.1a W	7.1b B 1 1	7.1c 3	7.1d	7.1e 99 %	7.1f	☒
7. A	7.2b A 0 7	7.2c 2	7.2d	7.2e 88 %	7.2f ☒	☐
7.3a	7.3b	7.3c	7.3d	7.3e %	7.3f	☐
7.4a	7.4b	7.4c	7.4d	7.4e %	7.4f	☐
7.5a	7.5b	7.5c	7.5d	7.5e %	7.5f	☐
7.6a	7.6b	7.6c	7.6d	7.6e %	7.6f	☐
7.7a	7.7b	7.7c	7.7d	7.7e %	7.7f	☐
7.8a	7.8b	7.8c	7.8d	7.8e %	7.8f	☐
7.9a	7.9b	7.9c	7.9d	7.9e %	7.9f	☐
7.10a	7.10b	7.10c	7.10d	7.10e %	7.10f	☐

☐ (Check if additional information is provided on Part IV - Supplemental Information)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal		C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)		
M			Or Percent Change (check (+) or (-)) ☐ + ☐ - %	R



EPA FORM R
PART IV. SUPPLEMENTAL INFORMATION

Page 5 of 5

(This space for your optional use.)

CONOCO LAKE CHARLES REFINERY
XYLENE (MIXED ISOMERS)

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11).

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE
(Part III, Section 5.3)

		A. Total Release (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. % From Stormwater	
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate				
You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)							
5.3 Discharges to receiving streams or water bodies	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	
	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3. ☐	5.3. ☐ a	[] [] []		5.3. ☐ b	5.3. ☐ c %	

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS
(Part III, Section 6)

		A. Total Transfers (pounds / year)			B. Basis of Estimate (enter code in box provided)	C. Type of Treatment Disposal	
		A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate				
You may report transfers of less than 1,000 pounds by checking ranges under A.1 (Do not use both A.1 and A.2.)							
Discharge to POTW (enter location number from Part II, Section 1.)	☐ 1	[] [] []			6.1. ☐ b		
Other off-site location (enter location number from Part II, Section 2.)	☐ 2	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ ☐ ☐	
Other off-site location (enter location number from Part II, Section 2.)	☐ 2	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ ☐ ☐	
Other off-site location (enter location number from Part II, Section 2.)	☐ 2	[] [] []			6.2. ☐ b	6.2. ☐ c ☐ ☐ ☐	

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (Check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	
					Yes	No
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]
☐ a	7. ☐ b ☐ ☐ ☐	7. ☐ c ☐	7. ☐ d []	7. ☐ e %	7. ☐ f []	[]

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CALCULATIONS

SARA TITLE III, SECTION 313

1990 TOXIC CHEMICAL RELEASE INVENTORY

LAKE CHARLES REFINERY

DISCUSSION

1990 TOXIC CHEMICAL RELEASE INVENTORY

LAKE CHARLES REFINERY

Calculations for the 1990 SARA reports for the Conoco Lake Charles refinery are similar to the 1989 SARA reports. A comparison of the emissions by unit and by component have been provided in the front of the Calculations chapter of this document. Differences in calculational methodology between the two reporting years are identified in this section.

For the 1990 reporting year, some fairly involved changes have occurred to the wastewater emissions. For the 1989 reporting year, AP-42 emissions factors were used on the API traps, and on both the Primary DAF and Final DAF. For the 1990 report, emissions factors for API traps came from NSPS-BID, which is more recent data.

The emissions for the remainder of the wastewater treatment system were estimated by material balance around the bio ponds. For the 1990 reports, SIMS (Surface Impoundment Modeling System) has been employed. SIMS is a new piece of software used for modeling surface impoundment fugitive emissions. Using the SIMS model, specific wastewater treatment parameters from the Lake Charles refinery have been inputted. This has resulted in a more complete estimation of wastewater treatment emissions.

A significant change is seen in the Loading Loss estimation. An arithmetic error in the calculation for the 1989 report has been found and corrected.

Minor changes to the process equipment fugitives are seen in the 1990 reporting year. For the 1989 reporting year, fugitive source counts and site specific emissions factors (from bagging studies) were used. Forsite has documented changes to process for the 1990 reporting year, accounting for small changes to fugitive emissions.

A decrease in lead compounds emissions is observed due to the phase out of leaded gasoline in the 1990 year.

Calculations

The attached release inventory gives a unit by unit comparison of emissions in 1989 and 1990. For specifics on the 1989 releases, consult the 1989 SARA 313 documentation. The calculated releases for 1990 are attached or found in the following sections:

Storage Tanks - Appendix H

Wastewater Treatment - Appendix G

API, DAF, IAF Emissions - Appendix G

Loading Loss - Appendix J

Process Equipment Fugitives - Appendix I

Process Drains - Appendix I

Cooling Tower - Appendix I

Solid Waste Release - Appendix F

Spreadsheets are referenced for many of the calculations. These spreadsheets are available from Paul Rady, PED, Ponca City.

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

1990 EMISSION SUMMARY BY COMPONENT

	AIR		Lbs/Yr		
	NON-POINT	POINT	WATER	LAND	TOTAL
				OFF-SITE	
AMMONIA	1,627		2,172	0	3,799
BENZENE	40,900	7,281	33	21	48,235
1,3-BUTADIENE	1,260	0		0	1,260
CHLORINE	2,018				2,018
CUMENE	18,696	444	17	23	19,180
CYCLOHEXANE	19,319	4,489	17	23	23,848
ETHYLBENZENE	8,953	565	17	24	9,559
ETHYLENE	14,660				14,660
HYDROCHLORIC ACID	614	30	0	0	644
LEAD COMPOUNDS	72	0	0		72
MANGANESE COMPOUN	250	0	0	0	250
METHANOL	1,606	1,210	0	0	2,816
MOLYBDENUM TRIOXIDE	118	0		0	118
MTBE	792				792
NAPHTHALENE	13,868	3,667	33	316	17,884
PHOSPHORIC ACID	0	0	0	0	0
PROPYLENE	109,340				109,340
SULFURIC ACID	499	478	0	0	977
STYRENE	1,153	4	17		1,174
TOLUENE	49,810	6,559	33	72	56,474
1,2,4-TRIMETHYLBENZE	7,604	105	17	22	7,748
XYLENES	44,773	2,207	17	0	46,997
TOTAL	337,932	27,039	2,373	501	367,845

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

EMISSION SUMMARY BY SOURCE

	Lbs/Yr			
	1989	1990	Variance	Percent
	RELEASE LB/YR	RELEASE LB/YR		Change
AIR POINT RELEASES	30	30	0	0.0
Storage Tanks	26,824	26,531	(293)	(1.1)
Acid Plant	478	478	0	0.0
Total Point Release	27,332	27,039	(293)	(1.1)
AIR NON-POINT RELEASES	499	499	0	0.0
Loading Loss	4,411	1,635	(2,776)	(62.9)
Fuel Gas Fugitives	5,700	5,940	240	4.2
Process Equipment Fugitives				
#3 CTU & Vac	6,200	5,980	(220)	(3.5)
#2 CTU	4,620	4,644	24	0.5
#4 HDS	2,340	2,500	160	6.8
#3 CRU & HDS	12,320	12,750	430	3.5
#1 Coker	9,100	8,718	(382)	(4.2)
#2 Coker	4,380	4,326	(54)	(1.2)
Gas Recovery Plant	15,340	15,210	(130)	(0.8)
#6 HDS	400	386	(14)	(3.5)
FCC Feed Prep	402	356	(46)	(11.4)
FCC	48,580	48,662	82	0.2
#2 CRU & HDS	11,720	10,734	(986)	(8.4)
Thermal Cracker	3,060	2,934	(126)	(4.1)
PBC	13,400	14,102	702	5.2
Molex	380	290	(90)	(23.7)
SHAD/VHAD	7,300	7,420	120	1.6
Cryo	10,940	10,940	0	0.0
Cat Poly	17,140	17,140	0	0.0
Alky	14,020	14,020	0	0.0
Acid Plant	1,580	1,580	0	0.0
#7 HDS	160	136	(24)	(15.0)
#5 HDS	220	234	14	6.4
Tank Farm	59,805	60,158	353	0.6
CTU (#2, #3) Inhibitor	410	410	0	0.0
Cooling Tower, Boiler Inj.	2,000	2,018	18	0.9
Regular Gaso. Add'n	653	322	(331)	(50.7)
Demin. Resin Regen.	614	614	0	0.0
Cryo Refrig Deicing	72	72	0	0.0
Fuel Oil Blending (AO23)	482	482	0	0.0
Propane Blending	964	964	0	0.0

MTBE	0	1,000	1,000	
HDS Catalyst Handling	120	118	(2)	(1.7)
Process Drains	7,130	6,218	(912)	(12.8)
Wastewater Trtmt	1,951	1,256	(695)	(35.6)
API/CPI Separator	456	1,557	1,101	241.4
Primary DAF	17	2,320	2,303	13,547.1
Equalization Pond	*	59,860	59,860	
Bio-Pond	*	7,102	7,102	
Clarifier	*	19	19	
Process Lagoon	*	944	944	
Final DAF	2	14	12	600.0
Cooling Water	1,348	1,348	0	0.0
Total Non-point Release	270,236	337,932	67,696	25.1
TOTAL AIR RELEASE	297,568	364,971	67,403	22.7
WATER RELEASE	2,376	2,373	(3)	(0.1)
LAND RELEASE				
Off-Site (Ponch.)	NA	6	6	
Off-Site (Safety Kleen)	NA	1	1	
Off-Site (BFI)	2,319	NA	(2,319)	
Off-Site (CWMI)	1,898	494	(1,404)	(74.0)
Total Off-Site Release	4,217	501	(3,716)	(88.1)
TOTAL RELEASE:	304,161	367,845	63,684	20.9

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

	RELEASE VARIANCE COMPARISON			
	1990 vs. 1989		Variance	Percent Change
	1989 RELEASE LB/YR	1990 RELEASE LB/YR		
AMMONIA	3,799	3,799	0	0.0
BENZENE	26,515	48,235	21,720	81.9
1,3-BUTADIENE	1,220	1,260	40	3.3
CHLORINE	2,000	2,018	18	0.9
CUMENE	13,206	19,180	5,974	45.2
CYCLOHEXANE	14,702	23,848	9,146	62.2
ETHYLBENZENE	8,153	9,559	1,406	17.2
ETHYLENE	14,440	14,660	220	1.5
HYDROCHLORIC ACID	644	644	0	0.0
LEAD COMPOUNDS	403	72	(331)	(82.1)
MANGANESE COMPOUNDS	250	250	0	0.0
METHANOL	2,728	2,816	88	3.2
MOLYBDENUM TRIOXIDE	120	118	(2)	(1.7)
MTBE	0	792	792	ERR
NAPHTHALENE	12,707	17,884	5,177	40.7
PHOSPHORIC ACID	0	0	0	
PROPYLENE	108,040	109,340	1,300	1.2
SULFURIC ACID	977	977	0	0.0
STYRENE	1,108	1,174	66	6.0
TOLUENE	44,197	56,474	12,277	27.8
1,2,4-TRIMETHYLBENZENE	8,250	7,748	(502)	(6.1)
XYLENES	40,708	46,997	6,289	15.4
TOTAL	304,167	367,845	63,678	20.9

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = 1,2,4 TMB (PSEUDO-CUMENE)

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	152	105
AIR NON-POINT RELEASES		
Loading Loss	68	26
Process Equipment Fugitives		
#3 CTU & Vac	0	0
#2 CTU	0	0
#4 HDS	0	0
#3 CRU & HDS	320	340
#1 Coker	1,160	1,080
#2 Coker	560	542
Gas Recovery Plant	640	604
#6 HDS	0	0
FCC Feed Prep	20	16
FCC	1,260	1,212
#2 CRU & HDS	260	242
Thermal Cracker	380	348
PBC	0	0
Molex	0	0
SHAD/VHAD	0	0
#7 HDS	0	0
#5 HDS	0	0
Tank Farm	3,108	3,130
Process Drains	16	14
Wastewater Trtmt	129	
API/CPI Separator	1	3
Primary DAF	*	0
Equalization Pond	0	0
Bio-Pond	*	0
Clarifier	*	0
Process Lagoon	*	0
Final DAF	*	0
Cooling Water	47	47
-----	-----	-----
Total Non-point Release	7,969	7,604
TOTAL AIR RELEASE	8,121	7,709

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WATER RELEASE	17	17
LAND RELEASE		
Off-Site (Ponch.)	NA	0
Off-Site (Safety Kleen)	NA	0
Off-Site (BFI)	62	NA
Off-Site (CWMi)	50	22
-----	-----	-----
Total Off-Site Release	112	22
TOTAL RELEASE:	8,250	7,748

* = Data not available
or equal to zero

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = 1,3 BUTADIENE

	1989 RELEASE(LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	NA	0
AIR NON-POINT RELEASES		
Fuel Gas Fugitives	200	200
Process Equipment Fugitives		
#1 Coker	40	40
#2 Coker	20	20
Gas Recovery Plant	120	120
FCC & VRU	320	320
Cryo	100	100
Cat Poly	80	80
Thermal Cracker	20	20
PBC	40	80
Alky	120	120
Acid Plant	0	0
MTBE Unit	NA	0
Tank Farm	160	160
-----	-----	-----
Total Non-point Release	1,220	1,260
WATER RELEASE	NA	
LAND RELEASE		
On-site (Landfarm)	NA	NA
Off-Site (BFI)	NA	
Off-Site (CWMI)	NA	
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = AMMONIA

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	NA	NA
 AIR NON-POINT RELEASES		
CTU (#2, #3) Inhibitor	410	410
Wastewater Treatment	1,217	1,217
-----	-----	-----
Total Non-point Release	1,627	1,627
 WATER RELEASE	2,172	2,172
 LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	NA	NA
Off-Site(CSI Facility)	NA	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = BENZENE		
	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	8,605	7,281
AIR NON-POINT RELEASES		
Loading Loss	1,826	722
Process Equipment Fugitives		
#3 CTU & Vac	740	912
#2 CTU	720	720
#4 HDS	380	366
#3 CRU & HDS	1,240	1,282
#1 Coker	40	36
#2 Coker	20	18
Gas Recovery Plant	120	110
#6 HDS	100	86
FCC Feed Prep	40	28
FCC	320	312
#2 CRU & HDS	1,500	1,374
Thermal Cracker	120	116
PBC	300	286
Molex	80	64
SHAD/VHAD	3,660	3,710
#7 HDS	0	0
#5 HDS	0	0
Tank Farm	4,360	4,392
Process Drains	1,792	1,574
Wastewater Trtmt	163	
API/CPI Separator	112	243
Primary DAF	4	689
Equalization Pond	*	20,900
Bio-Pond	*	2,740
Clarifier	*	7
Process Lagoon	*	84
Final DAF	2	4
Cooling Water	125	125
-----	-----	-----
Total Non-point Release	17,764	40,900
TOTAL AIR RELEASE	26,369	48,181

WATER RELEASE	34	33
LAND RELEASE		
Off-Site (Ponch.)	NA	1
Off-Site (Safety Kleen)	NA	0
Off-Site (BFI)	62	NA
Off-Site (CWMI)	50	20
-----	-----	-----
Total Off-Site Release	112	21
TOTAL RELEASE:	26,515	48,235

* = Data not available
or equal to zero

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPOUND = CHLORINE

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	NA	NA
AIR NON-POINT RELEASES		
<i>Cooling Tower, Boiler Inj.</i>	2,000	2,018
WATER RELEASE	NA	NA
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	NA	NA
Off-Site(CSI Facility)	NA	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = CUMENE		
	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	655	444
AIR NON-POINT RELEASES		
Loading Loss	144	55
Process Equipment Fugitives		
#3 CTU & Vac	0	0
#2 CTU	0	0
#4 HDS	0	0
#3 CRU & HDS	1,320	1,364
#1 Coker	380	360
#2 Coker	180	180
Gas Recovery Plant	200	200
#6 HDS	0	0
FCC Feed Prep	42	36
FCC	2,080	1,996
#2 CRU & HDS	1,060	972
Thermal Cracker	120	116
PBC	0	0
Molex	0	0
SHAD/VHAD	0	0
#7 HDS	0	0
#5 HDS	0	0
Tank Farm	6,687	6,730
Process Drains	31	27
Wastewater Trtmt	129	
API/CPI Separator	2	5
Primary DAF	*	372
Equalization Pond	0	5,490
Bio-Pond	*	545
Clarifier	*	1
Process Lagoon	*	198
Final DAF	1	2
Cooling Water	47	47
Total Non-point Release	12,423	18,696
TOTAL AIR RELEASE	13,078	19,140

WATER RELEASE	17	17
---------------	----	----

LAND RELEASE

Off-Site (Ponch.)	NA	1
-------------------	----	---

Off-Site (Safety Kleen)	NA	0
-------------------------	----	---

Off-Site (BFI)	62	NA
----------------	----	----

Off-Site (CWMI)	50	22
-----------------	----	----

----- Total Off-Site Release	----- 112	----- 23
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TOTAL RELEASE:	13,207	19,180
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* = Data not available
or equal to zero

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = CYCLOHEXANE		
	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	2,857	4,489
AIR NON-POINT RELEASES		
Loading Loss	0	0
Process Equipment Fugitives		
#3 CTU & Vac	1,520	1,420
#2 CTU	1,080	1,100
#4 HDS	640	598
#3 CRU & HDS	380	400
#1 Coker	380	360
#2 Coker	180	180
Gas Recovery Plant	200	200
#6 HDS	140	140
FCC Feed Prep	0	0
FCC	400	390
#2 CRU & HDS	1,140	1,030
Thermal Cracker	120	116
PBC	580	558
Molex	140	106
SHAD/VHAD	0	0
#7 HDS	0	0
#5 HDS	0	0
Tank Farm	1,040	1,042
Process Drains	3,303	2,845
Wastewater Trtmt	34	
API/CPI Separator	208	926
Primary DAF	8	362
Equalization Pond	0	5,940
Bio-Pond	•	1,040
Clarifier	•	3
Process Lagoon	•	341
Final DAF	4	3
Cooling Water	219	219
-----	-----	-----
Total Non-point Release	11,716	19,319
TOTAL AIR RELEASE	14,573	23,808

WATER RELEASE	17	17
LAND RELEASE		
Off-Site (Ponch.)	NA	1
Off-Site (Safety Kleen)	NA	0
Off-Site (BFI)	62	NA
Off-Site (CWMI)	50	22
-----	-----	-----
Total Off-Site Release	112	23
TOTAL RELEASE:	14,702	23,848

* = Data not available
or equal to zero

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = ETHYL BENZENE

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	635	565
AIR NON-POINT RELEASES		
Loading Loss	138	50
Process Equipment Fugitives		
#3 CTU & Vac	220	196
#2 CTU	160	152
#4 HDS	80	82
#3 CRU & HDS	1,220	1,262
#1 Coker	0	0
#2 Coker	0	0
Gas Recovery Plant	0	0
#6 HDS	0	0
FCC Feed Prep	20	24
FCC	0	0
#2 CRU & HDS	980	902
Thermal Cracker	0	0
PBC	0	0
Molex	0	0
SHAD/VHAD	420	424
#7 HDS	0	0
#5 HDS	0	0
Tank Farm	3,785	3,808
Process Drains	106	92
Wastewater Trtmt	81	
API/CPI Separator	8	35
Primary DAF	*	60
Equalization Pond	0	1,600
Bio-Pond	*	143
Clarifier	*	0
Process Lagoon	*	49
Final DAF	*	0
Cooling Water	74	74
-----	-----	-----
Total Non-point Release	7,292	8,953
TOTAL AIR RELEASE	7,927	9,518

WATER RELEASE	17	17
LAND RELEASE		
Off-Site (Ponch.)	NA	1
Off-Site (Safety Kleen)	NA	0
Off-Site (BFI)	113	NA
Off-Site (CWMI)	96	23
-----	-----	-----
Total Off-Site Release	209	24
TOTAL RELEASE:	8,153	9,559

* = Data not available
or equal to zero

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = ETHYLENE

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	NA	NA
AIR NON-POINT RELEASES		
Fuel Gas Fugitives	2,300	2,400
Process Equipment Fugitives		
#1 Coker	380	380
#2 Coker	180	180
Gas Recovery Plant	100	100
FCC & VRU	6,500	6,560
Cryo	2,580	2,580
Cat Poly	0	0
Thermal Cracker	120	120
PBC	0	0
Alky	0	0
Acid Plant	420	420
MTBE Unit	NA	40
Tank Farm	1,860	1,880
-----	-----	-----
Total Non-point Release	14,440	14,660
WATER RELEASE	NA	
LAND RELEASE		
On-site (Landfarm)	NA	NA
Off-Site (BFI)	NA	
Off-Site (CWMI)	NA	
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = HYDROCHLORIC ACID

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	30	30
AIR NON-POINT RELEASES		
Demin. Resin Regen.	614	614
TOTAL AIR RELEASE	644	644
WATER RELEASE	0	0
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	NA	NA
Off-Site(CSI Facility)	NA	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = LEAD COMPOUNDS

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	0	0
AIR NON-POINT RELEASES		
Regular Gaso. Add'n	403	72
WATER RELEASE	0	0
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	NA	NA
Off-Site(CSI Facility)	NA	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = MANGANESE COMPOUNDS

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	0	0
AIR NON-POINT RELEASES		
Regular Gaso. Add'n	250	250
WATER RELEASE	0	0
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	NA	NA
Off-Site(CSI Facility)	NA	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = METHANOL		
	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	1,210	1,210
AIR NON-POINT RELEASES		
Process Equipment Fugitives		
Cryo Refrig Deicing	72	72
Fuel Oil Blending (AO23)	482	482
Propane Blending	964	964
MTBE	NA	88
-----	-----	-----
Total Non-Point Release	1518	1606
WATER RELEASE		
	0	0
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	0	NA
Off-Site(CSI Facility)	0	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = MOLYBDENUM TRIOXIDE

	1989 RELEASE (LB/YR)	1990 RELEASE (LB/YR)
AIR POINT RELEASES	NA	0
AIR NON-POINT RELEASES		
HDS Catalyst Handling	120	118
WATER RELEASE	NA	NA
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	NA	NA
Off-Site(CSI Facility)	NA	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

	COMPONENT = MTBE	
	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	NA	NA
AIR NON-POINT RELEASES		
Process Equipment Fugitives		
MTBE	NA	792
WATER RELEASE	0	0
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	0	NA
Off-Site(CSI Facility)	0	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

	COMPONENT =	NAPHTHALENE
	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	3,187	3,667
AIR NON-POINT RELEASES		
Loading Loss	9	2
Process Equipment Fugitives		
#3 CTU & Vac	1,280	1,184
#2 CTU	920	916
#4 HDS	520	498
#3 CRU & HDS	0	0
#1 Coker	0	0
#2 Coker	0	0
Gas Recovery Plant	0	0
#6 HDS	80	80
FCC Feed Prep	60	52
FCC	0	0
#2 CRU & HDS	0	0
Thermal Cracker	0	0
PBC	160	150
Molex	80	60
SHAD/VHAD	620	636
#7 HDS	160	136
#5 HDS	220	234
Tank Farm	3,120	3,130
Process Drains	2	2
Wastewater Trtmt	*	
API/CPI Separator	*	0
Primary DAF	*	105
Equalization Pond	0	5,610
Bio-Pond	*	982
Clarifier	*	3
Process Lagoon	*	27
Final DAF	0	2
Cooling Water	59	59
Total Non-point Release	7,290	13,868
TOTAL AIR RELEASE	10,477	17,535

SAL 000003767

WATER RELEASE	34	33
---------------	----	----

LAND RELEASE

Off-Site (Ponch.)	NA	1
Off-Site (Safety Kleen)	NA	0
Off-Site (BFI)	1,218	NA
Off-Site (CWMl)	980	315

Total Off-Site Release	2,198	316
------------------------------	-------------	-----------

TOTAL RELEASE:	12,709	17,884
----------------	--------	--------

* = Data not available
or equal to zero

SAL 000003768

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = PHOSPHORIC ACID

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	NA	0
AIR NON-POINT RELEASES	NA	0
WATER RELEASE	0	0
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	0	NA
Off-Site(CSI Facility)	0	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = PROPYLENE

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES	NA	NA
AIR NON-POINT RELEASES		
Fuel Gas Fugitives	3,200	3,340
Process Equipment Fugitives		
#1 Coker	2,680	2,680
#2 Coker	1,300	1,300
Gas Recovery Plant	11,760	11,760
FCC & VRU	34,560	34,860
Cryo	8,260	8,260
Cat Poly	17,060	17,060
Thermal Cracker	880	880
PBC	10,680	11,460
Alky	13,900	13,900
Acid Plant	1,160	1,160
MTBE Unit	NA	80
Tank Farm	2,600	2,600
-----	-----	-----
Total Non-point Release	108,040	109,340
WATER RELEASE	NA	
LAND RELEASE		
On-site (Landfarm)	NA	NA
Off-Site (BFI)	NA	
Off-Site (CWMI)	NA	
-----	-----	-----
Total Off-Site Release		0

SAL 000003770

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = SULFURIC ACID

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Acid Plant	478	478
AIR NON-POINT RELEASES	<499	<499
WATER RELEASE	0	0
LAND RELEASE		
On-site	NA	NA
Off-Site(USPCI Facility)	NA	NA
Off-Site(CSI Facility)	NA	NA
-----	-----	-----
Total Off-Site Release	0	0

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

COMPONENT = STYRENE

	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	0	4
AIR NON-POINT RELEASES		
Process Equipment Fugitives		
SHAD/VHAD	1,040	1,060
Tank Farm		.
#7 HDS	0	0
#5 HDS	0	0
Process Drains	6	48
Wastewater Trtmt	39	39
Cooling Water	6	6
-----	-----	-----
Total Non-point Release	1,091	1,153
TOTAL AIR RELEASE	1,091	1,157
WATER RELEASE	17	17
LAND RELEASE	NA	NA
TOTAL RELEASE:	1,108	1,174

* = Data not available
or equal to zero

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

	COMPONENT	=	TOLUENE
	1989 RELEASE (LB/YR.)		1990 RELEASE (LB/YR.)
AIR POINT RELEASES			
Storage Tanks	7,011		6,559
AIR NON-POINT RELEASES			
Loading Loss	1,650		576
Process Equipment Fugitives			
#3 CTU & Vac	1,600		1,480
#2 CTU	1,140		1,146
#4 HDS	380		624
#3 CRU & HDS	3,820		3,950
#1 Coker	1,540		1,440
#2 Coker	740		726
Gas Recovery Plant	840		806
#6 HDS	80		80
FCC Feed Prep	100		86
FCC	1,100		1,056
#2 CRU & HDS	3,540		3,250
Thermal Cracker	500		464
PBC	1,060		1,010
Molex	80		60
SHAD/VHAD	1,560		1,590
#7 HDS	0		0
#5 HDS	0		0
Tank Farm	15,299		15,392
Process Drains	1,293		1,114
Wastewater Trtmt	78		
API/CPI Separator	72		213
Primary DAF	3		487
Equalization Pond	•		12,900
Bio-Pond	•		1,020
Clarifier	•		3
Process Lagoon	•		34
Final DAF	2		2
Cooling Water	301		301
Total Non-point Release	36,778		49,810
TOTAL AIR RELEASE	43,789		56,369

SAL 000003773

WATER RELEASE	34	33
LAND RELEASE		
Off-Site (Ponch.)	NA	1
Off-Site (Safety Kleen)	NA	1
Off-Site (BFI)	207	NA
Off-Site (CWMt)	168	70
-----	-----	-----
Total Off-Site Release	375	72
TOTAL RELEASE:	44,198	56,474

• = Data not available
or equal to zero

SARA 313 RELEASE INVENTORY
LAKE CHARLES REFINERY

	COMPONENT = XYLENE	
	1989 RELEASE (LB/YR.)	1990 RELEASE (LB/YR.)
AIR POINT RELEASES		
Storage Tanks	2,512	2,207
AIR NON-POINT RELEASES		
Loading Loss	576	204
Process Equipment Fugitives		
#3 CTU & Vac	840	788
#2 CTU	600	610
#4 HDS	340	332
#3 CRU & HDS	4,020	4,152
#1 Coker	2,500	2,342
#2 Coker	1,200	1,180
Gas Recovery Plant	1,360	1,310
#6 HDS	0	0
FCC Feed Prep	120	114
FCC	2,040	1,956
#2 CRU & HDS	3,240	2,964
Thermal Cracker	800	754
PBC	580	558
Molex	0	0
SHAD/VHAD	0	0
#7 HDS	0	0
#5 HDS	0	0
Tank Farm	17,786	17,894
Process Drains	583	502
Wastewater Trtmt	81	
API/CPI Separator	53	132
Primary DAF	2	245
Equalization Pond	0	7,420
Bio-Pond	*	632
Clarifier	*	2
Process Lagoon	*	211
Final DAF	1	1
Cooling Water	470	470
-----	-----	-----
Total Non-point Release	37,192	44,773
TOTAL AIR RELEASE	39,704	46,980

WATER RELEASE	17	17
LAND RELEASE		
Off-Site (Ponch.)	NA	0
Off-Site (Safety Kleen)	NA	0
Off-Site (BFI)	533	NA
Off-Site (CWMI)	454	0
-----	-----	-----
Total Off-Site Release	987	0
TOTAL RELEASE:	40,708	46,997

* = Data not available
or equal to zero

RELEASE CALCULATIONS

Ammonia

L.C.

IR

TOTAL RELEASE = 1627 lb/yr (1600)

Point Release = NA

Non-point Release : Agua ammonia is injected into #2 & #3 CTU to inhibit corrosion

Fugitive Eqpmt

$$\begin{aligned} \text{Release} &= \left(4 \text{ Valves}_{\text{(est.)}} \times 0.012 \frac{\text{lb}}{\text{h}}^{(1)} + 4 \left(\frac{7849 \text{ F}}{1891 \text{ V}} \right) \times 0.0018 \right)^{(2)} \frac{\text{lb NH}_3}{\text{hr}} \\ &\times 24 \frac{\text{h}}{\text{d}} \times 365 \frac{\text{d}}{\text{yr}} \times 2 \text{ CTUs} \times 0.30 \text{ NH}_3^{(3)} \\ &= \underline{410 \frac{\text{lb}}{\text{yr}}} \end{aligned}$$

$$\begin{aligned} \text{Wastewater Trtmt Release to Air} &= 8.126 \times 10^8 \frac{\text{gal}}{\text{yr}} \cdot \frac{0.34 \text{ lb}}{\text{gal}} \cdot \frac{0.32 \text{ lb NH}_3}{106 \text{ lb wastewater}} \cdot \left(\frac{1}{(1-0.30)} \right) = 2177 \frac{\text{lb}}{\text{yr}} \\ &\text{(SEE '89 DOCS)} \end{aligned}$$

$$\text{Total Non-point Release} = \underline{1627 \frac{\text{lb}}{\text{yr}} (1600)} = 1627 \frac{\text{lb}}{\text{yr}} \text{ TOE}$$

Basis = Engineering Calculation

$$\text{WATER } 398 \frac{\text{lb}}{\text{day}} \text{ USED (AIR)} \cdot 365 \frac{\text{day}}{\text{yr}} \cdot \frac{1 \text{ yr}}{8.126 \times 10^8 \text{ gal}} \cdot \frac{453.63}{26} \cdot 1000 \cdot \frac{1301}{2.185 \text{ liter}} = 21.4 \text{ ppm}$$

$$21.4 \text{ ppm} \left(\frac{0.02 \text{ ppm NH}_3}{1.33 \text{ gal TOE (NH}_3\text{)}} \right) = 0.32 \text{ ppm NH}_3 \text{ free AIR} \quad (1989 \text{ DOCUMENT})$$

$$\text{LAND } 398 \frac{\text{lb}}{\text{day}} \cdot 365 \frac{\text{day}}{\text{yr}} \cdot \frac{0.52 \text{ ppm}}{21.4 \text{ ppm}} = 2172 \frac{\text{lb}}{\text{yr}} \text{ NH}_3 \text{ TO WASTEWATER}$$

Release = NA (NH₃ either chemically degraded or volatilized)

- (1) See Appx B, Table D-1 (SOCMI emission factor)
- (2) Flange/Valve ratio estimate from #3 CTU VOC source count (Apr I)
- (3) See MSDS scan, Appx A

Chlorine

L.C.

AIR

Point Release = NA

Non-point Release = Chlorine is injected into the cooling and boiler water systems to prevent microbial growth.

5 Cooling Tower & 1 Boiler Injections = 6

Estimate 2 valves, 8 flanges each:

$$\begin{aligned}\text{Release} &= [2(.012)^{(1)} + 8(.0018)] \frac{\text{lb}}{\text{hr}} \times 24 \frac{\text{h}}{\text{d}} \times 365 \frac{\text{d}}{\text{yr}} \times 6 \text{ Inj. Pt.} \\ &= \underline{2,000 \text{ lb/yr chlorine}}\end{aligned}$$

Basis = Engineering Estimate

WATER

Release = NA (low solubility; ionizes & volatizes)

LAND

Release = NA (gaseous; none present in waste)

(1) See Appx B - SocMI emission factors

HAZARD CALCULATIONS

Hydrochloric Acid

L.C.

IR

Point Release = (storage tank) - See attached spreadsheet

Non-point Release

HCl is used for boiler water demineralizer resin regeneration.

Fugitive Eqpmt Sources $\Rightarrow$ assume 1 pump, 4 valves, 14 flanges
(4 x 3.6)

$$\text{Release} = [1(.011)^{(4)} + 4(.016) + 14(.0018)] \frac{\text{lb}}{\text{h}} \times 24 \frac{\text{h}}{\text{d}} \times 365 \frac{\text{d}}{\text{yr}} \\ \times 0.352 \text{ HCl} = \underline{614 \frac{\text{lb}}{\text{yr}} \text{ HCl}}$$

Basis = Engineering Calculation

WATER

Release = 0

Basis = pH Monitoring of Effluent (between 6-9)

LAND

Release = NA

- (1) see Appx C - 1988 Bluebook
- (2) see MSDS scan - Appx A
- (3) CRC Handbook of Chemistry & Physics
- (4) see Appx E - Engineering Calculations

VOC EMISSION CALCULATIONS
FIXED ROOF

DATE	=	17-May-90
TIME PERIOD : MONTH.YR START	=	JAN 89
: MONTH.YR END	=	DEC 89
LOCATION	=	LAKE CHARLES
POINT SOURCE I.D. #	=	HCL TANK
MATERIAL STORED	=	HCL
TANK CAPACITY (bbls)	=	238
THRUPUT (bbls/yr)	=	6334

BREATHING LOSS

TANK DIAMETER (ft)	D =	11
TANK HEIGHT (ft)	H =	15
VAPOR SPACE HEIGHT (ft)	h =	7.5
DAILY TEMP CHANGE (F)	dT =	20
MOLECULAR WEIGHT	Mv =	30
VAPOR PRESSURE (psia)	Pv =	0.31
PRESSURE (psia)	Pa =	14.7
PRODUCT FACTOR	Kc =	1
PAINT FACTOR	Ep =	1
SMALL TANK FACTOR	C =	0.56
BREATHING LOSS (lbs)	Lb =	22

WORKING LOSS

MOLECULAR WEIGHT	Mv =	30
VAPOR PRESSURE	Pv =	0.31
# OF TURNS PER YEAR	N =	26.613445378
TANK CAPACITY (gal)	V =	9996
TURNOVER FACTOR	Kn =	1
PRODUCT FACTOR	Kc =	1
WORKING LOSS (lbs)	Lw =	1

TOTAL LOSS (lb/yr)	Lt = Lb + Lw	
	=	81 x 37 = 36

RELEASE CALCULATION

Lead Compounds

L.C

11R

Point Release =

TEL tank has a glycol seal on top; no release due to tank venting.

$$\text{Stg. Release} = \underline{0 \frac{\text{lb}}{\text{yr}} \text{ Pb}}$$

Non-pt. Release

Fug. Equipmt Source = TEL (lead antiknock) additive system (added to regular gasoline)

Sources = estimate 1 pump, 10 valves, 36 flanges

$$\begin{aligned} \text{Fug. Release} &= [1(.047) + 10(.00051) + 36(.0018)] \frac{\text{lb TEL}}{\text{hr}} \times 24 \frac{\text{hr}}{\text{d}} \\ &\times 65 \frac{\text{d}}{\text{yr}} \times \frac{178.67 \text{ g Pb}^{(2)}}{\text{lb TEL}} \times \frac{1 \text{ lb Pb}}{453.6 \text{ g}} \\ &= \underline{72 \text{ lb Pb}} \text{ (parent metal release)} \end{aligned}$$

Basis = Engineering Calculation

WATER Release = 0 lb (Very little potential to get to waste water system.)

LAND Release = NA (No leaded gasoline tank cleanout in 1990)⁽³⁾

(1) see Appx C - 1990 Bluebook

(2) Physical Properties Table attached

(3) see Appx F - Some Vehicle Emissions Data

(4) NOLEAD BLENDING AFTER MARCH 7, 1990.

RELEASE CALCULATIONS

Manganese Compounds

L.C.

AIR

Point Release =

$$\text{Stg Loss} = \underline{0 \text{ lb}}$$

Non-point Release =

Fugitive Eqpmt Source = "Ethyl" MMT additive system

MMT is added to regular gasoline as antiknock to supplement declining usage of lead (TEL)

Sources = estimate 1 pump, 10 valves, 36 flanges
(10 x 3.6)

$$VP = 0.047 \text{ mm Hg}^{(2)} \times \frac{14.7 \text{ psia}}{760 \text{ mm Hg}} = 0.0009 \text{ psia}$$

(heavy liquid)

$$\begin{aligned} \text{Release} &= \left[1(.047)^{(3)} + 10(.00051) + 36(.0018) \right] \frac{\text{lb}}{\text{hr}} \text{ MMT} \\ &\quad \times 24 \frac{\text{hr}}{\text{d}} \times 365 \frac{\text{d}}{\text{yr}} \times 0.244 \text{ wt \% Mn}^{(2)} \\ &= \underline{250 \text{ lb/yr Mn}} \quad (\text{parent metal release}) \end{aligned}$$

Basis = Engineering Calculation

WATER

Release = 0 lb (Very little potential to get to wastewater system)

LAND

Release = NA (No leaded gasoline tank cleanout in 19⁽⁴⁾)

(1) see Appx C - 19 Bluebook

(2) Physical Properties table attached

(3) see Appx B - Emission Factors

(4) see Appx F - Solid Waste Diagram (14)

RELEASE CALCULATIONS

Methanol

L.C.

71R

Point Release

Stg Loss (Tank 404) = 1210

Non-point Release

Fugitive Sources = 2 injection spots in cryo (de-icing)
1 propane blending injection (additive)
1 A023 injection point (fuel oil additive)

Additive systems = 1 LL pump (from barrels)

$$\text{Propane blending} = (0.11 \frac{\text{lb}}{\text{hr}})^{(2)} \times 24 \frac{\text{h}}{\text{d}} \times 365 \frac{\text{d}}{\text{yr}} = 964 \frac{\text{lb}}{\text{yr}} \text{ MeOH}$$

$$\text{A023 (Fuel oil) blending} = 964 \frac{\text{lb}}{\text{yr}} \times 0.50 \text{ MeOH}^{(3)} = 482 \frac{\text{lb}}{\text{yr}} \text{ MeOH}$$

Cryo's = assume 10% of amt used is released to air⁽⁴⁾
remainder sent to sewer (100% degradation)

$$\text{MeOH usage}_{1988}^{(5)} = 108 \text{ gal} \times \frac{1 \text{ ft}^3}{7.48 \text{ gal}} \times \frac{62.4 \text{ lb} (0.796)}{\text{ft}^3} = 717 \frac{\text{lb}}{\text{yr}}$$

$$\text{MTBE LOSS} = 88 \frac{\text{lb}}{\text{yr}} \text{ (SEE FUGITIVE DATA)}$$

$$\text{Cryo release} = 0.10 (717 \frac{\text{lb}}{\text{yr}}) = 72 \frac{\text{lb}}{\text{yr}} \text{ MeOH}$$

$$\text{Total Non-pt Release} = \underline{1,606 \frac{\text{lb}}{\text{yr}} \text{ MeOH}}$$

Basis = Engineering Estimate

(1) per 1970 EIS - see Appx H

(2) SOCMF emission factor - Appx B

(3) per G. Hopkins IOC (5-2-88) - Appx A

(4) estimate by Steve Jones, P.C. Ref,

(5) 1988 Bluebook - Appx C

Methanol (cont'd)

L.C.

WATER

Release = 0 (100% degraded - per EPA SARA 313 guidance document)

Basis = Engineering Estimate

LAND

On-Site Release = 0 (100% degradation of any MeOH to landfarm)

Off-Site Release = NA

Basis = Engineering Estimate

RELEASE CALCULATIONS

Molybdenum Trioxide

L.C.

AIR

Point Release = NA

$$\begin{aligned} \text{Non-point Release} &= \frac{100 \text{ lb cat loss}}{\text{cat dump}} \times \frac{12 \frac{\text{month}}{\text{yr}}}{9 \text{ month}^{(1)} \text{ (avg run)}} \times 8 \text{ HDS units} \\ \text{(HDS Cat Handling)} & \\ \Rightarrow \text{Blowaway} &= 1,067 \text{ lb cat lost} \end{aligned}$$

$$\begin{aligned} 1,067 \text{ lb HDS cat} & \left(0.57 \frac{\text{Co}}{\text{Mo}}^{(2)} \times 0.096 \text{ MoO}_3^{(3)} + 0.43 \frac{\text{Ni}}{\text{Mo}}^{(2)} \times 0.13 \text{ MoO}_3^{(3)} \right) \\ &= \underline{118 \text{ lb/yr MoO}_3} \end{aligned}$$

Basis = Engineering Estimate

WATER

Release = NA

(Assume no HDS cat contact w/ wastewater; due to overwhelming presence of Al_2O_3 , CoO , NiO , catalyst is insoluble⁽⁴⁾ $\Rightarrow$ no effluent release)

LAND

(see Appx F - Solid Waste Release Calculations)

- (1) Estimate by Steve Jones, P.C. Refy
- (2) L.C. HDS cat usage info per Lloyd Winger IOC (Appx F)
- (3) HDS cat composition data in Appx F
- (4) per EPA SARFA 313 Guidance Document, Chemical/Physical Property data

Phosphoric Acid

L.C.

AIR

$$\text{Pt \& Non-pt Release} = \underline{\text{NA}}$$

(Cat Poly catalyst is wet dumped)⁽¹⁾

WATER

$$\text{Release} = \underline{0}$$

Basis = pH monitoring of effluent (between 6-9)
 ⇒ see Appx G - wastewater monitoring reports

LAND

$$\text{On-Site Release} = \underline{\text{NA}}$$

$$\text{Off-Site Release} = \underline{0} \quad (\text{Wet spent cat poly catalyst is neutralized prior to landfill})^{(1)}$$

Basis = Engineering Estimate

(1) Based on L.C. refy operation (B. Butler, D. Kersey)

RELEASE CALCULATIONS

Sulfuric Acid

L.C

AIR

Point Release =

No Storage Release ($V.P. = 1.78 \times 10^{-6} \text{ psi/a}$)⁽¹⁾
 $\Rightarrow$ too heavy

ACID PLANT PRODUCTION = 69,200 BBL⁽²⁾

$$69,200 \text{ BBL} \left(\frac{42 \text{ gal}}{\text{BBL}} \right) \left(\frac{1 \text{ ft}^3}{7.48 \text{ gal}} \right) \left(\frac{62.4 \text{ lb}}{\text{ft}^3} \right) (1.87 \text{ sp.gr}) \left(\frac{1 \text{ ton}}{2000 \text{ lbs}} \right) = 23912 \text{ tons}$$

$$\text{ACID PLANT DE-MASTER} = \frac{0.02 \text{ lb RELEASE}}{1 \text{ TON PRODUCED}} \times 23912 = 478 \text{ lb/yr } \text{H}_2\text{SO}_4$$

(11-42)

Basis = Engineering Calculation

Non-point Release = <499 lb H₂SO₄

(Fugitive Eqpm: Acid Plant, Alky, Cooling Tower)

(SOCMI factors don't fit heavy inorganics; no good factors)

(DuPont H₂SO₄ plant, Ft Hill, OH reported <499
 for whole plant — E.J. Mancini)

WATER

Release = 0

Basis = pH monitoring of effluent (between 6-9)⁽⁴⁾

LAND

Release = NA

(1) Perry's Chemical Engineer's Handbook

(2) 1990 Bluebook — see Appx C

(3) AP-42 emission factor — see Appx E

(4) wastewater pH monitoring reports — see Appx G

APPENDIX A

REPORTABLE TOXIC CHEMICAL LIST DEVELOPMENT

SARA TITLE III, SECTION 313
1990 TOXIC CHEMICAL RELEASE INVENTORY
LAKE CHARLES REFINERY

List Development

Section 313 reporting is required for specific listed chemicals if the chemical is:

1. Manufactured or processed in excess of 25,000 pounds over the course of a year.
2. Otherwise used in excess of 10,000 pounds over the course of a year.

In addition, a listed chemical is not considered if it is present in a mixture below the following de minimis levels:

1. 1.0% on listed toxic chemicals.
2. 0.1% on listed carcinogenic chemicals.

The steps taken to obtain the list of reportable chemicals is as follows:

1. Review the list of approximately 300 chemicals and determine potential chemicals in a refinery.
2. Conduct a Material Safety Data Sheet (MSDS) scan and review analytical data to determine if any potential chemicals are above the de minimis level in any feedstocks, mixtures, or product streams.
3. Determine if chemical is manufactured, processed or otherwise used.
4. Determine the amount of feedstocks, mixtures, or product streams handled by the refinery. This is done by reviewing the bluebook and talking with plant personnel.
5. Multiply the amount of feedstock, mixture, or product stream handled by the weight percent of a specific listed chemical to obtain the total amount of chemical handled.

The list of potentially reportable chemicals is found in table 1. This list was developed by reviewing the 1988 and 1989 documentation, and reviewing the "Skinner List" and "Modified Skinner List", which appeared in "Petitions to Delist Hazardous Waste, A Guidance Manual" (EPA/530-SW-85-003). Table 2 is the threshold calculations for the refinery.

Notes:

- 1) MSDS scan attached in Appendix A.
- 2) Process stream compositional data found in Appendix E.
- 3) Operating Expense and Yield Data (Bluebook) found in Appendix C.

TABLE 1
POTENTIALLY REPORTABLE TOXIC CHEMICALS

Acetone	Ethylene glycol
Aluminum (fume or dust)	Formaldehyde*
Aluminum oxide	Freon 113
Ammonia	Hydrazine*
Ammonium sulfate (solution)	Hydrochloric acid
Aniline	Hydrogen flouride
Anthracene	Hydroquinone (Dihydroxybenzene)
Antimony	Isopropyl alcohol* (Isopropanol)
Arsenic*	Lead*
Asbestos* (friable)	Manganese
Barium	Mercury
Benzene*	Methanol
Biphenyl	2 Methoxy ethanol
Bis (2 ethylhexyl) adipate*	Methyl ethyl ketone (MEK)
1,3-Butadiene*	Methyl tert-butyl ether (MTBE)
Butyl alcohols (n- , sec- , tert-)	Molybdenum trioxide
Carbon disulfide	Naphthalene
Carbon tetrachloride*	Nickel*
Chlorine	Nitric acid
Chlorobenzene (Phenylchloride)	Phenol
Chloroform*	Phosphoric acid
Chloromethane (Methyl chloride)	Propylene (Propane)
Chromium*	Pyridine
Cobalt	Quinoline
Copper	Styrene* (Vinylbenzene)
Cresol (mixed isomers)	Sulfuric acid
Cumene (1-Methylethyl benzene)	Toluene
Cyclohexane	o-Toluidine*
Dibenzofuran	1,1,1-Trichloroethane (Methyl chloroform)
1,2-Dibromoethane* (Ethylene dibromide)	1,2,4-Trimethylbenzene (Psuedo cumene)
1,2-Dichloroethane* (Ethylene dichloride)	Vanadium (fume or dust)
Dichloromethane* (Methylene chloride)	Xylenes (mixed isomers)
Diethanolamine	2,6-Xylidine
2,4-Dimethylphenol	Zinc (fume or dust)
1,4-Dioxane	
Ethyl benzene	
Ethylene	

Notes:

* = De minimis concentration = 0.1 weight %. All other chemicals have de minimus concentration of 1.0 weight %.

SKINNER LIST

Enseco

TABLE 5. APPENDIX VIII HAZARDOUS CONSTITUENT SUBSET
FOR PETROLEUM INDUSTRY STUDIES*

Metals

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt⁴
Lead
Mercury
Nickel
Selenium
Vanadium

Volatile Organics

Benzene
Carbon disulfide
Chlorobenzene
Chloroform
1,2-Dibromoethane
1,2-Dichloroethane
1,4-Dioxane
Methyl ethyl ketone
Styrene
Ethyl benzene⁴
Toluene
Xylenes¹

Base/Neutral Organics

Anthracene
Benz(a)anthracene
Benzo(b)fluoranthene

Base/Neutral Organics (Cont.)

Benzo(k)fluoranthene
Benzo(a)pyrene
Bis(2-ethylhexyl)phthalate
Butyl benzyl phthalate
Chrysene
Dibenz(a,h)acridine²
Dibenz(a,h)anthracene
Di-n-butyl phthalate
Dichlorobenzenes¹
Diethyl phthalate
7,12-Dimethylbenz(a)anthracene
Dimethyl phthalate
Di-n-octyl phthalate
Fluoranthene
Indene⁴
Methyl chrysene^{2,4}
1-Methylnaphthalene⁴
Naphthalene
Phenanthrene
Pyrene
Pyridine³
Quinoline⁴

Acid Organics

Benzenethiol³
Cresols¹
2,4-Dimethylphenol
2,4-Dinitrophenol
4-Nitrophenol
Phenol

*"Petitions to Delist Hazardous Wastes, A Guidance Manual," EPA/530-SW-85003, April, 1985.

- 1) Reported as ortho-, meta-, and para-isomers.
- 2) No analytical standard available.
- 3) Not consistently recoverable using standard analytical methods.
- 4) Not listed in Appendix VIII of 40 CFR 261.

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8

Modified "Skinner List"
for
Hazardous Constituents in Petroleum Refining Wastes

1. Metals*

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Dibenz(a,h)acridine
Dibenz(a,h)anthracene
Dichlorobenzenes (o-, m-,
and p-dichlorobenzene)
Dimethyl phthalate
7,12-Dimethylbenz(a)anthracene
Dimethyl phthalate
Di(n)butyl phthalate
Di(n)octyl phthalate
Fluoranthene
Indene
Methyl chrysene
1-Methyl naphthalene
Naphthalene
Phenanthrene
Pyrene
Pyridine
Quinoline

2. Volatiles

Benzene
Carbon disulfide
Chlorobenzene
Chloroform
1,2-Dichloroethane
1,4-Dioxane
Ethyl benzene
Ethylene dibromide
Methyl ethyl ketone
Styrene
Toluene
Xylene

4. Semi-volatile Acid-Extractable
Compounds

Benzenethiol
Cresols (o-, m-, and p-cresol)
2,4-Dimethylphenol
2,4-Dinitrophenol
4-Nitrophenol
Phenol

3. Semi-volatile Base/Neutral
Extractable Compounds

Anthracene
Benzo(a)anthracene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(j)fluoranthene
Benzo(a)pyrene
Bis(2-ethylhexyl) phthalate
Butyl benzyl phthalate
Chrysene

- * This list of metals has been expanded to include all the metals in Attachments III.1. and III.2.

TABLE 2
LAKE CHARLES REFINERY
POTENTIALLY REPORTABLE TOXIC CHEMICALS
SARA 113

Acetone	USE IN LAB IS EXEMPT. (NO REPORT)
Aluminum (fume or dust)	NONE USED. (1),(3) (NO REPORT)
Ammonia	73,900 POUNDS AMMONIA USED * 0.35 = 25,900 lbs used(1). (REPORT)
Ammonium sulfate (solution)	USE IN LAB IS EXEMPT. (NO REPORT)
Aniline	USE IN LAB IS EXEMPT. (NO REPORT)
Anthracene	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Antimony	BELOW DEMINIMUS IN PROCESS STREAMS AND CATALYST (NO REPORT)
Arsenic*	7,300 LBS OF SODA ASH USED. (1) (NO REPORT)
Asbestos* (friable)	BELOW DEMINIMUS IN PROCESS STREAMS AND CATALYST (NO REPORT)
Barium	BELOW DEMINIMUS IN PROCESS STREAMS AND CATALYST (NO REPORT)
Benzene*	5.21E+09 (LB UNLEADED MANUFACTURED)* 0.025 = 1.3E+08 (REPORT)(1),(2)
Biphenyl	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Bis (2 ethylhexyl) adipate*	BELOW DEMINIMUS IN PROCESS STREAMS (NO REPORT)
1,3-Butadiene*	2.1E+08 POUNDS FCC TAIL GAS (1) * 0.002 = 421200 (REPORT)(2)
Butyl alcohols (n-, sec-, tert-)	BELOW DEMINIMUS IN PROCESS STREAMS (NO REPORT)
Carbon disulfide	BELOW DEMINIMUS IN PROCESS STREAMS AND CATALYST (NO REPORT)
Carbon tetrachloride*	USE IN LAB IS EXEMPT. (NO REPORT)
Chlorine	88,000 POUNDS OF CHLORINE USED (1). (REPORT)
Chlorobenzene (Phenylchloride)	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Chloroform*	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Chloromethane (Methyl chloride)	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Chromium*	NO CHROMIUM TREATMENT OF COOLING WATER (2). (NO REPORT)
Cobalt	528000 * .032*3/7 = 7240 LBS CO/MOLY MDS CATALYST (NO REPORT)(1)
Copper	BELOW DE MINIMUS IN FCC CATALYST. (2) (NO REPORT)
Cresol (mixed isomers)	BELOW DE MINIMUS IN PROCESS STREAMS. (1), (2), (3) (NO REPORT)
Cumene (1-Methylethyl benzene)	5.21E+09 (LB UNLEADED MANUFACTURED)* 0.043 = 2.2E+08 (REPORT)(1),(2)
Cyclohexane	1.97E+07 (LB REGULAR MANUFACTURED) * 0.052 = 1024400 (REPORT)(1),(2)
Dibenzofuran	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
1,2-Dibromoethane* (Ethylene dibromide)	43700 (LB LEAD ADDITIVES) * 0.18 = 7866 (NO REPORT)(1)
1,2-Dichloroethane* (Ethylene dichloride)	43700 (LB LEAD ADDITIVES) * 0.18 = 7866 (NO REPORT)(1)
Dichloromethane* (Methylene chloride)	NOT FOUND IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Diethanolamine	NOT USED, MANUFACTURED, OR PROCESSED IN 1990. (1),(2),AND(3) (NO REPORT)
2,4-Dimethylphenol	NOT FOUND IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
1,4-Dioxane	NOT USED, MANUFACTURED, OR PROCESSED IN 1990. (1),(2),AND(3) (NO REPORT)
Ethyl benzene	5.21E+09 (LB UNLEADED MANUFACTURED)* 0.027 = 1.4E+08 (REPORT)(1),(2)
Ethylene	2.1E+08 POUNDS FCC TAIL GAS (1) * 0.16 = 33696000 (REPORT)(1)
Ethylene glycol	NOT USED IN SUFFICIENT QUANTITY. (1) (NO REPORT)
Formaldehyde*	NOT USED, MANUFACTURED, OR PROCESSED IN 1990. (1),(2),AND(3) (NO REPORT)
Freon 113	NOT USED, MANUFACTURED, OR PROCESSED IN 1990. (1),(2),AND(3) (NO REPORT)

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Hydrazine*	NOT USED, MANUFACTURED, OR PROCESSED IN 1990. (1),(2),AND(3) (NO REPORT)
Hydrochloric acid	5,264,300 LBS USED IN 1990 * 0.37 = 1,947,800. (1), (3) (REPORT)
Hydrogen fluoride	NOT USED IN 1990. (1) (NO REPORT)
Hydroquinone (Dihydroxybenzene)	NOT USED IN 1990. (1) (NO REPORT)
Isopropyl alcohol* (Isopropanol)	BELOW DE MINIMUS IN PROCESS STREAMS. (1), (2), (3) (NO REPORT)
Lead Compounds*	43700 (LB LEAD ADDITIVES) * 0.615 = 26875.5 (REPORT)(1)
Manganese Compounds	28,600 LBS USED IN 1990 (1). (REPORT)
Mercury	BELOW DE MINIMUS IN PROCESS STREAMS. (1), (2), (3) (NO REPORT)
Methanol	8,800,000 LBS USED AT MTBE UNIT IN 1990. (REPORT) (1)
2 Methoxy ethanol	NOT USED IN 1990. (1) (NO REPORT)
Methyl ethyl ketone (MEK)	NOT USED IN 1990. (1) (NO REPORT)
Methyl tert-butyl ether (MTBE)	37,600,000 LBS MTBE PRODUCED IN 1990. (REPORT) (1)
Molybdenum trioxide	528000 * 0.096*3/7 + 0.13*4/7) LBS CO/MOLY HDS CATALYST = 61,000 (NO REPORT)(1)
Naphthalene	1.1E+09 POUNDS JET/KERO MANUFACTURED * 0.03 = 33408000 (REPORT) (1)
Nickel*	528000 * .03*4/7 = 9,000 LBS CO/MOLY HDS CATALYST (NO REPORT)(1)
Nitric acid	USE IN LAB IS EXEMPT. (NO REPORT)
Phenol	BELOW DE MINIMUS IN PROCESS STREAMS. (1), (2), (3) (NO REPORT)
Phosphoric acid	224,000 LBS CAT POLY CATALYST USED IN 1990 * 0.3 = 67,200 LBS. (1) (REPORT)
Propylene (Propene)	2.1E+08 POUNDS FCC TAIL GAS (1) * 0.12 = 25272000 (REPORT)(1)
Pyridine	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Quinoline	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Styrene* (Vinylbenzene)	62900000 LBS SABINE HAD PROCESSED (#3CTU) *0.10 = 6290000 (REPORT) (1)
Sulfuric acid	121,000,000 POUNDS PRODUCED IN 1990 (1). (REPORT)
Toluene	5.21E+09 (LB UNLEADED MANUFACTURED)* 0.098 = 5.1E+08 (REPORT)(1),(2)
o-Toluidine*	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
1,1,1-Trichloroethane (Methyl chloroform)	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
1,2,4-Trimethylbenzene (Pseudo Cumene)	5.21E+09 (LB UNLEADED MANUFACTURED)* 0.02 = 1.0E+08 (REPORT)(1),(2)
Vanadium (fume or dust)	BELOW DEMINIMUS IN PROCESS STREAMS AND CATALYST (NO REPORT)
Xylenes (mixed isomers)	5.21E+09 (LB UNLEADED MANUFACTURED)* 0.13 = 6.8E+08 (REPORT)(1),(2)
2,6-Xylidine	BELOW DEMINIMUS IN CRUDE AND GASOLINE ANALYSES.(2) (NO REPORT)
Zinc (fume or dust)	NOT USED IN 1990. (1) (NO REPORT)

* = De Minimis Concentration = 0.1 Wt %. All Other Chemicals Have
De Minimis Concentrations of 1.0 Wt %.

(1) = Bluebook
(2) = 1988 or 1989 Documentation
(3) = MSDS Scan

SAL 000003794

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ACETONE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS003	ACETONE				>	99.0 999.9
14	PLANT LABORATORY-QC	F	DELTA DISTRIBUTORS INC.			
GS489	421 CLEAR PROTECTIVE COATING (AEROSOL)				15.0	20.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	A. W. CHESTERTON CO.			
GS538	03105 WHITE INK 8-105				10.0	10.0
00	PLANT-WIDE/FIELD UNIT	D	SPRAYON PRODUCTS			

SAL 000003795

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ACETONE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
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PC012 GTA409 (4-079) 10.0 10.0

10 RECEIPT/STORAGE/MOVEMENTS UNIT CBS0 0 INTERNATIONAL PAINT

SAL 000003796

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ACETONE

AREA/ SECT CODE		TASK CODE	ROLES		MANUFACTURER		
PC014	KRYLON INT./EXT. ENAMEL OR ENGINE COLOR					36.0	37.0
00	PLANT-WIDE/FIELD, MAINTENANCE	CB50	D	BORDEN			
PC015	KRYLON SPRAY PRIMER					33.0	33.0
00	PLANT-WIDE/FIELD, MAINTENANCE	CB50	D	BORDEN			
90	NO PROCESS CODE		D	BORDEN			

SAL 000003797

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ALUMINUM

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
GS116	725 NICKEL ANTI-SEIZE COMPOUND (BULK AND PRESSURIZED CAN)			5.0	10.0
00	PLANT-WIDE/FIELD UNIT	D	A. W. CHESTERTON CO.		
GS491	823 ALUMINUM PUTTY PLUS PART A			45.0	55.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	A. W. CHESTERTON CO.		
GS534	DU PONT 25P			.0	999.9
00	PLANT-WIDE/FIELD UNIT	D	DUPONT		
GS542	CARBON AND ALLOY STEELS			<	.0 1.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.		
GS543	STAINLESS STEELS			<	.0 1.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.		
GS544	CHROME PLATED CARBON STEEL			<	.0 2.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.		
GS545	ALUMINUM ALLOY			>	90.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.		
GS546	NICKEL BASED ALLOY STEEL			.0	999.9
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.		
GS562	ALUMINUM, 1000 PPM (0.100% W/V)			<	.0 1.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		

SAL 000003798

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ALUMINUM COATING

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS542			.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.

SAL 000003799

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ALUMINUM FLAKE

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
-----------------------	--	--------------------	--------------

GS145 ANTI-SIEZE 220 > 3.0 999.9

00 PLANT-WIDE/FIELD UNIT D HI-PORT INDUSTRIES INC.

SAL 000003800

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

AMMONIA

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER	
GS031	AMMONIUM HYDROXIDE		28.0	30.0
30	CRUDE PROCESSING UNIT	CD	VAN WATERS & ROGERS INC.	
70	CRUDE PROCESSING UNIT	CD	VAN WATERS & ROGERS INC.	

SAL 000003801

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

AMMONIA

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS031	AQUA AMMONIA			28.0 30.0
30	CRUDE PROCESSING UNIT	D		MCKESSON CHEMICAL CO.
70	CRUDE PROCESSING UNIT	D		MCKESSON CHEMICAL CO.

SAL 000003802

MR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

AMMONIA

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER			
GS308	STATE CLR AEROSOL				<	.0	1.0
00	PLANT-WIDE/FIELD, MAINTENANCE	DXXX	D	STATE CHEMICAL MFG. CO.			
GS311	STATE HGP HIGH GLOSS PROTECTANT				<	.0	1.0
00	PLANT-WIDE/FIELD, MAINTENANCE	DXXX	D	STATE CHEMICAL MFG. CO.			

SAL 000003803

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

AMMONIA

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS377			99.8 99.8
50		D	JUPITER CHEMICALS INC.

SAL 000003804

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ANILINE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS550			90.0 100.0
14	PLANT LABORATORY-QC	F	J. T. BAKER CHEMICAL CO.

SAL 000003805

MAR 26, 1998

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ANTIMONY

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER	
GS609	GRAPHALLOY		<	.0 50.0
90	PLANT-WIDE/FIELD, MAINTENANCE	EXXX D	GRAPHITE METALLIZING CORP.	

SAL 000003806

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ARSENIC

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
GS299	SODA ASH		.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	VAN WATERS & ROGERS INC.
99	REC/STOR/MOVE, WAREHOUSE	D	VAN WATERS & ROGERS INC.

SAL 000003807

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ARSENIC

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
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GS354	1005/3080	PHOTORECEPTOR		30.0	35.0
00	PLANT-WIDE/FIELD, SRVCS-ENGR,I		D	XEROX CORP.	

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ASBESTOS

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
GS038	CHRYSTILE ASBESTOS	.0 999.9
00	NO PROCESS CODE	0 GENERAL ELECTRIC

SAL 000003809

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ASBESTOS

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
PC020	PYROCRETE 102			<	.0	1.0
70	PLANT-WIDE/FIELD, MAINTENANCE	CB50	D	CARBOLINE CO.		

SAL 000003810

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CI007	LIGHT STRAIGHT RUN GASOLINE INTERMEDIATE STREAM		.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
30	CRUDE PROCESSING UNIT	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
40	NO PROCESS CODE	C	CONOCO INC.
70	CRUDE PROCESSING UNIT	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
CI008	HEAVY STRAIGHT RUN NAPHTHA		999.9
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	THERMAL CRACKING UNIT	C	CONOCO INC.
30	CRUDE PROCESSING UNIT	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
40	HYDROGEN TREATING UNIT	C	CONOCO INC.
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	CAT REFORM, W/ HYDRO W/ H2S RE	C	CONOCO INC.
70	CRUDE PROCESSING UNIT	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
CI013	HEAVY CATALYTIC CRACKED NAPHTHA		.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
20	SULFURIC ACID ALKYLATION UNIT	A	CONOCO INC.
30	CAT CRACK, FLUID-BED W/O H2S R	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.

SAL 000003811

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
LIGHT CATALYTIC CRACKED NAPHTHA			.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
20	SULFURIC ACID ALKYLATION UNIT	A	CONOCO INC.
30	CAT CRACK, FLUID-BED W/O H2S R	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
CI018	CATALYTIC REFORMED NAPHTHA		2.0 5.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	A	CONOCO INC.
70	CAT REFORM, W/ HYDRO W/ H2S RE	A	CONOCO INC.
HEAVY CATALYTIC REFORMED NAPHTHA			.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
70	CAT REFORM, W/ HYDRO W/ H2S RE	C	CONOCO INC.
LIGHT CATALYTIC REFORMED NAPHTHA			.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
70	CAT REFORM, W/ HYDRO W/ H2S RE	C	CONOCO INC.
CI022	HEAVY THERMAL CRACKED NAPHTHA		.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	THERMAL CRACKING UNIT	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
50	COKING UNIT	C	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.

SAL 000003812

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
LIGHT THERMAL CRACKED NAPHTHA			.0 999.9
10 NO PROCESS CODE	C	CONOCO INC.	
20 NO PROCESS CODE	C	CONOCO INC.	
20 THERMAL CRACKING UNIT	C	CONOCO INC.	
40 CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.	
50 COKING UNIT	C	CONOCO INC.	
60 CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.	
60 PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.	
70 NO PROCESS CODE	C	CONOCO INC.	
70 NO PROCESS CODE	C	CONOCO INC.	
CI026 SWEETENED NAPHTHA			.0 999.9
10 NO PROCESS CODE	C	CONOCO INC.	
40 CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.	
CI029 HYDRODESULFURIZED HEAVY NAPHTHA			.0 999.9
40 CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.	
40 HYDROGEN TREATING UNIT	C	CONOCO INC.	
70 NO PROCESS CODE	C	CONOCO INC.	
HYDRODESULFURIZED LIGHT NAPHTHA			.0 999.9
40 CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.	
40 HYDROGEN TREATING UNIT	C	CONOCO INC.	
70 NO PROCESS CODE	C	CONOCO INC.	
CI039 CTU OVERHEAD/DEBUTANIZER GAS			.0 999.9
30 CRUDE PROCESSING UNIT	C	CONOCO INC.	
40 CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.	
70 CRUDE PROCESSING UNIT	C	CONOCO INC.	
CI042 TAIL GAS STREAMS			.0 999.9
00 PLANT-WIDE/FIELD UNIT	C	CONOCO INC.	
20 NO PROCESS CODE	C	CONOCO INC.	
20 NO PROCESS CODE	C	CONOCO INC.	

SAL 000003813

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CI042	TAIL GAS STREAMS		.0 999.9
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
50	COKING UNIT	C	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
CI045	CASINGHEAD GASOLINE		.0 999.9
20	THERMAL CRACKING UNIT	C	CONOCO INC.
CI046	STABILIZER OVERHEAD LIQUID		.0 999.9
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
70	CAT REFORM, W/ HYDRO W/ H2S RE	C	CONOCO INC.
CI050	HEAVY BLEND FEEDSTOCK		< .0 .5
30	CRUDE PROCESSING UNIT	C	CONOCO INC.
70	CRUDE PROCESSING UNIT	C	CONOCO INC.
80	DOCK OPERATIONS UNIT	ABC	CONOCO INC.
CI051	LIGHT FEEDSTOCK - SM		.1 4.9
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
30	CRUDE PROCESSING UNIT	C	CONOCO INC.
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	CRUDE PROCESSING UNIT	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
80	DOCK OPERATIONS UNIT	ABC	CONOCO INC.

SAL 000003814

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
CI052	CRUDE OIL (SWEET)			<	.0 2.0
10	NO PROCESS CODE		C	CONOCO INC.	
10	RECEIPT/STORAGE/MOVEMENTS UNIT		C	CONOCO INC.	
30	CRUDE PROCESSING UNIT		C	CONOCO INC.	
30	NO PROCESS CODE		C	CONOCO INC.	
70	CRUDE PROCESSING UNIT		C	CONOCO INC.	
70	NO PROCESS CODE		C	CONOCO INC.	
80	DOCK OPERATIONS UNIT		C	CONOCO INC.	
CI053	CRUDE OIL (SOUR)				.1 2.0
10	NO PROCESS CODE		C	CONOCO INC.	
10	RECEIPT/STORAGE/MOVEMENTS UNIT		C	CONOCO INC.	
70	CRUDE PROCESSING UNIT		C	CONOCO INC.	
70	NO PROCESS CODE		C	CONOCO INC.	
80	DOCK OPERATIONS UNIT		C	CONOCO INC.	
CI054	HEAVY AROMATIC DISTILLATE				25.0 35.0
10	NO PROCESS CODE		C	DU PONT	
10	RECEIPT/STORAGE/MOVEMENTS UNIT		C	DU PONT	
70	CRUDE PROCESSING UNIT		C	DU PONT	
80	DOCK OPERATIONS UNIT		C	DU PONT	

SAL 000003815

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
CI055	LIGHT AROMATIC CONCENTRATE				40.0	50.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	VISTA CHEMICAL CO.			
30	PLANT-WIDE/FIELD, OPERATIONS	C	VISTA CHEMICAL CO.			
70	CRUDE PROCESSING UNIT	C	VISTA CHEMICAL CO.			
CI056	LIGHT AROMATIC DISTILLATE				40.0	50.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO CHEMICALS			
30	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO CHEMICALS			
70	CRUDE PROCESSING UNIT	C	CONOCO CHEMICALS			

SAL 000003816

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CP001	ALKYLATE		.1 4.9
10	NO PROCESS CODE	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
20	SULFURIC ACID ALKYLATION UNIT	A	CONOCO INC.
CP020	LEADED REGULAR GASOLINE		.1 4.9
10	NO PROCESS CODE	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.
CP021	SUPER UNLEADED GASOLINE		.1 4.9
10	NO PROCESS CODE	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.
CP022	UNLEADED GASOLINE		.1 4.9
10	NO PROCESS CODE	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.
CP023	LIGHT STRAIGHT RUN GASOLINE		.1 4.9
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
30	CRUDE PROCESSING UNIT	A	CONOCO INC.
40	NO PROCESS CODE	A	CONOCO INC.
70	CRUDE PROCESSING UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.
CP029	NAPHTHA		.1 4.9
10	RECEIPT/STORAGE/MOVEMENTS UNIT	AC	CONOCO INC.
80	DOCK OPERATIONS UNIT	AC	CONOCO INC.

SAL 000003817

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GSB45	BENZENE			>	99.0 999.9
00	PLANT-WIDE/FIELD UNIT	E	CONOCO INC.		
90.0	100.0				
14	PLANT LABORATORY-QC	EF	J. T. BAKER CHEMICAL CO.		
40	CAT REFORM, W/O HYDROGENATION	EF	J. T. BAKER CHEMICAL CO.		
GS187	HEXANES			<	.0 1.0
14	PLANT LABORATORY-QC	F	J. T. BAKER CHEMICAL CO.		

SAL 000003818

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BENZENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS431			VISTA NPSO SOLVENT .2 1.0
40		BC	HYDROGEN TREATING UNIT VISTA CHEMICAL CO.

SAL 000003819

MAR 26, 1998

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

BUTYL ALCOHOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER

PC014 KRYLON INT./EXT. ENAMEL OR ENGINE COLOR < .0 3.0

00 PLANT-WIDE/FIELD, MAINTENANCE CBS0 D BORDEN

SAL 000003820

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

C1 ALKYL NAPHTHALENES

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
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GS163 LIGHT FUEL OIL

20.0 30.0

10 RECEIPT/STORAGE/MOVEMENTS UNIT

C DU PONT

SAL 000003821

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

C2 ALKYL NAPHTHALENES

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
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GS163	LIGHT FUEL OIL			2.0 15.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT	

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

C3 ALKYL NAPHTHALENES

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS163			3.0 6.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT

SAL 000003823

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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10 RECEIPT/STORAGE/MOVEMENTS UNIT C DU PONT

SAL 000003824

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

C4 ALKYL NAPHTHALENES

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS163			1.0 1.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT

SAL 000003825

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CARBON TETRACHLORIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS111			90.0 100.0
14	PLANT LABORATORY-QC	F	J. T. BAKER CHEMICAL CO.

SAL 000003826

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CHLORINE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS120	CHLORINE			100.0 100.0
12	NO PROCESS CODE	D	THOMPSON-HAYWARD CHEMICAL CO.	
12	UTILITY UNIT	D	THOMPSON-HAYWARD CHEMICAL CO.	
20	SULFURIC ACID MFG, CONTACT	D	THOMPSON-HAYWARD CHEMICAL CO.	
60	UTILITY, PUMP HOUSE (COOLING T	D	THOMPSON-HAYWARD CHEMICAL CO.	
70	NO PROCESS CODE	D	THOMPSON-HAYWARD CHEMICAL CO.	
99.5	99.5			
12	NO PROCESS CODE	D	VAN WATERS & ROGERS INC.	
12	UTILITY UNIT	D	VAN WATERS & ROGERS INC.	
20	SULFURIC ACID MFG, CONTACT	D	VAN WATERS & ROGERS INC.	
60	UTILITY, PUMP HOUSE (COOLING T	D	VAN WATERS & ROGERS INC.	
70	NO PROCESS CODE	D	VAN WATERS & ROGERS INC.	

SAL 000003927

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CHLORINE

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
GS120	CHLORINE TH 2000LB		100.0 100.0
00	PLANT-WIDE/FIELD UNIT	D	HARCROS CHEMICALS INC.
12	NO PROCESS CODE	D	HARCROS CHEMICALS INC.
12	UTILITY UNIT	D	HARCROS CHEMICALS INC.
20	SULFURIC ACID MFG, CONTACT	D	HARCROS CHEMICALS INC.
60	UTILITY, PUMP HOUSE (COOLING T	D	HARCROS CHEMICALS INC.
70	NO PROCESS CODE	D	HARCROS CHEMICALS INC.

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CHROMIUM

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS299			.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	VAN WATERS & ROGERS INC.
99	REC/STOR/MOVE, WAREHOUSE	D	VAN WATERS & ROGERS INC.
GS542			< .0 10.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.
GS543			< .0 27.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.
GS544			.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.
GS545			< .0 1.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.
GS546			.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.

SAL 000003829

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CHROMIUM

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS598			19.0 19.0
20		D	MORTON CO.

SAL 000003830

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CHROMIUM

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GS609	GRAPHALLOY			<	.0 10.0
90	PLANT-WIDE/FIELD, MAINTENANCE	EXXX	D	GRAPHITE METALLIZING CORP.	

SAL 000003831

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COBALT

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
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CA010 HYDROGEN TREATING CATALYSTS

.0 999.9

20 SULFUR RECOVERY, CLAUS

0 AMERICAN CYANAMID CO.

SAL 000003832

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COBALT

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
GS499	CYCLOIDS			2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
GRINDING MEDIA				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
HG-100				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
K-ALL				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
KC210				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
KC250				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
KC800				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
KC810				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
KC820				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		
KC850				2.0	25.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.		

SAL 000003833

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COBALT

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
KC910				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
KC950				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
KENGRIT				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
KM				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
KMN-10				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
KT101				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
KWH				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
KWH-M				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
K1				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		
K2S				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNA METAL INC.		

SAL 000003834

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COBALT

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
K2S-M				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K21				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K21-M				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K2884				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K2885				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K29				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K3055D				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K4H				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K4H-M				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
K40				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		

SAL 000003835

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COBALT

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
K400			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K420			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K45			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K45-M			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K5H			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K6			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K6-M			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K600			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K68			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	
K84			2.0 25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNA METAL INC.	

SAL 000003836

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COBALT

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
K86				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K8735				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K90				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K91				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K91-M				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K92				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K94				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K95				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K96				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			
K96-M				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN	D	KENNAMETAL INC.			

SAL 000003837

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COBALT

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
S PELLETS				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
SP139				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
SP145 PINS				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
SP240				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
SP266				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
SP278				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
SP291				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
SP316				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
TS1818				2.0	25.0
90 PLANT-WIDE/FIELD, MAINT-ROUTIN		D	KENNAMETAL INC.		
GS543 STAINLESS STEELS				<	.0 1.0
00 PLANT-WIDE/FIELD UNIT		D	HARMON/KEYSTONE CORP.		

SAL 000003838

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COBALT

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS546	NICKEL BASED ALLOY STEEL			.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.	

SAL 000003839

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

COPPER

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER			
GS542	CARBON AND ALLOY STEELS			<	.0	2.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS543	STAINLESS STEELS			<	.0	5.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS544	CHROME PLATED CARBON STEEL			<	.0	1.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS545	ALUMINUM ALLOY			<	.0	6.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS546	NICKEL BASED ALLOY STEEL				.0	999.9
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS566	COPPER, 1000 PPM (0.100% W/V)			<	.0	1.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.			
GS609	GRAPHALLOY			<	.0	50.0
90	PLANT-WIDE/FIELD, MAINTENANCE	EXXX D	GRAPHITE METALLIZING CORP.			

SAL 000003840

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CRESOLS (METHYLATED PHENOL)

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
CI057	SOUR WATER WASTE STREAMS			.0 999.9
10	NO PROCESS CODE	E	CONOCO INC.	
20	NO PROCESS CODE	E	CONOCO INC.	
20	NO PROCESS CODE	E	CONOCO INC.	
20	NO PROCESS CODE	E	CONOCO INC.	
20	NO PROCESS CODE	E	CONOCO INC.	
20	SULFURIC ACID MFG, CONTACT	E	CONOCO INC.	
20	THERMAL CRACKING UNIT	E	CONOCO INC.	
30	CRUDE PROCESSING UNIT	E	CONOCO INC.	
30	NO PROCESS CODE	E	CONOCO INC.	
40	CAT REFORM, W/O HYDROGENATION	E	CONOCO INC.	
40	HYDROGEN TREATING UNIT	E	CONOCO INC.	
50	COKING UNIT	E	CONOCO INC.	
60	CRUDE PROCESS, VIRGIN LT ENDS	E	CONOCO INC.	
60	PLANT-WIDE/FIELD, OPERATIONS	E	CONOCO INC.	
70	CRUDE PROCESSING UNIT	E	CONOCO INC.	
70	NO PROCESS CODE	E	CONOCO INC.	
70	NO PROCESS CODE	E	CONOCO INC.	
70	NO PROCESS CODE	E	CONOCO INC.	

SAL 000003841

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CUMENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
CP020	LEADED REGULAR GASOLINE			1.0	1.0
10	NO PROCESS CODE	A	CONOCO INC.		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.		
80	DOCK OPERATIONS UNIT	A	CONOCO INC.		
CP021	SUPER UNLEADED GASOLINE			1.0	1.0
10	NO PROCESS CODE	A	CONOCO INC.		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.		
80	DOCK OPERATIONS UNIT	A	CONOCO INC.		
CP022	UNLEADED GASOLINE			1.0	1.0
10	NO PROCESS CODE	A	CONOCO INC.		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.		
80	DOCK OPERATIONS UNIT	A	CONOCO INC.		

SAL 000003842

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CYCLOHEXANE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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CP020 LEADED REGULAR GASOLINE 1.0 1.0

10	NO PROCESS CODE	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.

SAL 000003843

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

CYCLOHEXANE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
CP023	LIGHT STRAIGHT RUN GASOLINE			<=	.0	5.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.			
30	CRUDE PROCESSING UNIT	A	CONOCO INC.			
40	NO PROCESS CODE	A	CONOCO INC.			
70	CRUDE PROCESSING UNIT	A	CONOCO INC.			
80	DOCK OPERATIONS UNIT	A	CONOCO INC.			
CP029	NAPHTHA			<=	.0	2.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	AC	CONOCO INC.			
80	DOCK OPERATIONS UNIT	AC	CONOCO INC.			

SAL 000003844

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

DI & TRI ISOPROPYL PHENDLS

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GS391	AD-36			>	75.0 999.9
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT		

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

DIETHANOLAMINE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS150	DIETHANOLAMINE			> 98.8 999.9
20	NO PROCESS CODE	D	UNION CARBIDE CORP.	
20	NO PROCESS CODE	D	UNION CARBIDE CORP.	
30	CAT CRACK, FLUID-BED W/O H2S R	D	UNION CARBIDE CORP.	
30	NO PROCESS CODE	D	UNION CARBIDE CORP.	
50	COKING UNIT	D	UNION CARBIDE CORP.	
60	CRUDE PROCESS, VIRGIN LT ENDS	D	UNION CARBIDE CORP.	
60	PLANT-WIDE/FIELD, OPERATIONS	D	UNION CARBIDE CORP.	
70	NO PROCESS CODE	D	UNION CARBIDE CORP.	

SAL 000003846

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHOXYLATED NONYLPHENOL

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
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GS18Z GUNK SC SUPER CONCENTRATE DEGREASER

1.0 10.0

50 NO PROCESS CODE

D RADIATOR SPECIALTY CO.

SAL 000003847

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHOXYLATED NONYLPHENOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS246	MALCO 7329 MICROBIOCID				1.0	10.0
12	UTILITY UNIT		D	NALCO CHEMICAL CO.		
GS535	MALCO 5602 DEGASSING CHEMICAL				10.0	20.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT		D	NALCO CHEMICAL CO.		

SAL 000003848

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYL BENZENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
CI054	HEAVY AROMATIC DISTILLATE			2.0	4.0
10	NO PROCESS CODE	C	DU PONT		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT		
70	CRUDE PROCESSING UNIT	C	DU PONT		
80	DOCK OPERATIONS UNIT	C	DU PONT		
CP020	LEADED REGULAR GASOLINE			2.0	2.0
10	NO PROCESS CODE	A	CONOCO INC.		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.		
80	DOCK OPERATIONS UNIT	A	CONOCO INC.		
CP021	SUPER UNLEADED GASOLINE			2.0	2.0
10	NO PROCESS CODE	A	CONOCO INC.		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.		
80	DOCK OPERATIONS UNIT	A	CONOCO INC.		
CP022	UNLEADED GASOLINE			2.0	2.0
10	NO PROCESS CODE	A	CONOCO INC.		
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.		
80	DOCK OPERATIONS UNIT	A	CONOCO INC.		
GS178	GASGUARD			.0	999.9
00	PLANT-WIDE/FIELD, MAINTENANCE	DXXX D	NATIONAL CHEMSEARCH DIV. OF MCH CORP.		
GS269	OIL BRONZE LIQUID			4.8	4.8
10	NO PROCESS CODE	C	DU PONT		
10	REC/STOR/MOVE, BLENDING-PRODUC	C	DU PONT		
99	REC/STOR/MOVE, WAREHOUSE	C	DU PONT		
GS447	DMD-2			<	.0 10.0
70	H2 TREAT, DESULF/DENITRIF	D	DU PONT		

SAL 000003849

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYL BENZENE

AREA/ SECT CODE	TASK ROLES		MANUFACTURER
	CODE		

GS529 DUPONT CORROSION INHIBITOR NO. 6A

< .0 5.0

10 RECEIPT/STORAGE/MOVEMENTS UNIT

DC DU PONT

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYL BENZENE (AROMATIC HYDROCARBON)

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
PC019		PYROCOTE 787		> 1.0 999.9	
70		PLANT-WIDE/FIELD, MAINTENANCE		CB50 D CARBOLINE CO.	

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYLENE GLYCOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS087	BETZ 409			.0 999.9
12	UTILITY UNIT	D	BETZ INDUSTRIAL	
GS096	PD ACTIVATOR, DEVELOPER			35.0 35.0
00	OFFICE/NON-FIELD UNIT	D	BRUNING	

SAL 000003852

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYLENE GLYCOL

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER	
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GS133 CORTEC 347

1.0 5.0

50 COKING UNIT

D SEALED AIR CORP.

SAL 000003853

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYLENE GLYCOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS167			ETHYLENE GLYCOL .0 999.9
14		F	PLANT LABORATORY-QC MALLINCRODT INC.
			ETHYLENE GLYCOL - ANTIFREEZE GRADE 95.0 95.0
00		D	PLANT-WIDE/FIELD UNIT CONOCO INC.
30		D	PLANT-WIDE/FIELD, OPERATIONS CONOCO INC.
GS181			NO. 1000 GREEN CONCENTRATE 9.0 9.0
00		D	PLANT-WIDE/FIELD UNIT MERIAM INSTRUMENT

SAL 000003854

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYLENE GLYCOL

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER	
GS209	GASKET ELIMINATOR 504 SEALANT		1.0	3.0
00	PLANT-WIDE/FIELD, MAINTENANCE	D	LOCTITE CORP.	

SAL 000003855

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYLENE GLYCOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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GS311 STATE HGP HIGH GLOSS PROTECTANT < .0 1.0

00 PLANT-WIDE/FIELD, MAINTENANCE DXXX D STATE CHEMICAL MFG. CO.

SAL 000003856

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ETHYLNAPHTHALENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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CI054 HEAVY AROMATIC DISTILLATE

1.0 2.0

10	NO PROCESS CODE	C	DU PONT
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT
70	CRUDE PROCESSING UNIT	C	DU PONT
80	DOCK OPERATIONS UNIT	C	DU PONT

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

FORMALDEHYDE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS175	FORMALIN			37.0 55.0
20	SULFUR RECOVERY, CLAUS	D	GENERAL ELECTRIC	
60	NO PROCESS CODE	D	GENERAL ELECTRIC	

SAL 000003858

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

FORMALDEHYDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
PC032			
	PLASITE 9060 LIGHT BLUE		1.0 1.0
20	THERMAL CRACKING UNIT	D	WISCONSIN PROTECTIVE COATINGS

SAL 000003859

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROCHLORIC ACID

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS192	HYDROCHLORIC ACID			33.0 40.0
14	PLANT LABORATORY-QC	F	J. T. BAKER CHEMICAL CO.	
27.0	37.0			
12	NO PROCESS CODE	D	VAN WATERS & ROGERS INC.	
12	UTILITY, BOILER HOUSE (ELEC/ST	D	VAN WATERS & ROGERS INC.	
70	CRUDE PROCESSING UNIT	D	VAN WATERS & ROGERS INC.	
70	NO PROCESS CODE	D	VAN WATERS & ROGERS INC.	

SAL 000003860

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROCHLORIC ACID

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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GS421 DISSOLVED OXYGEN CHEMETS R-7512

< .0 .1

20 SULFURIC ACID MFG, CONTACT

F CHEMETRICS INC.

MAR 26, 1998

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROCHLORIC ACID

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS562	ALUMINUM, 1000 PPM (0.100% W/V)			<	.0	1.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.			
GS604	BREX CONCENTRATE				.0	999.9
00	PLANT-WIDE/FIELD UNIT	CE40	D	NATIONAL CHEMSEARCH		

SAL 000003862

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN FLUORIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS195			100.0 100.0
00	NO PROCESS CODE	0	DU PONT

SAL 000003863

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CI001	ATMOSPHERIC TOWER RESID		.0 999.9
30	CRUDE PROCESSING UNIT	AC	CONOCO INC.
50	COKING UNIT	AC	CONOCO INC.
70	CRUDE PROCESSING UNIT	AC	CONOCO INC.
70	NO PROCESS CODE	AC	CONOCO INC.
CI007	LIGHT STRAIGHT RUN GASOLINE INTERMEDIATE STREAM		.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
30	CRUDE PROCESSING UNIT	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
40	NO PROCESS CODE	C	CONOCO INC.
70	CRUDE PROCESSING UNIT	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
CI011	VACUUM RESIDUUM		< .0 .1
10	NO PROCESS CODE	CA	CONOCO INC.
30	NO PROCESS CODE	CA	CONOCO INC.
50	COKING UNIT	CA	CONOCO INC.
60	NO PROCESS CODE	CA	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	CA	CONOCO INC.
70	CRUDE PROCESSING UNIT	CA	CONOCO INC.
70	NO PROCESS CODE	CA	CONOCO INC.
80	DOCK OPERATIONS UNIT	CA	CONOCO INC.
80	NO PROCESS CODE	CA	CONOCO INC.
CI013	HEAVY CATALYTIC CRACKED NAPHTHA		.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.

SAL 000003864

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE	TASK	ROLES	MANUFACTURER
CI013	HEAVY CATALYTIC CRACKED NAPHTHA		.0 999.9
20	SULFURIC ACID ALKYLATION UNIT	A	CONOCO INC.
30	CAT CRACK, FLUID-BED W/O H2S R	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
	LIGHT CATALYTIC CRACKED NAPHTHA		.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
20	SULFURIC ACID ALKYLATION UNIT	A	CONOCO INC.
30	CAT CRACK, FLUID-BED W/O H2S R	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
CI021	COKER BLOWDOWN		.0 999.9
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
50	NO PROCESS CODE	C	CONOCO INC.
60	NO PROCESS CODE	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
CI022	HEAVY THERMAL CRACKED NAPHTHA		.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	THERMAL CRACKING UNIT	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
50	COKING UNIT	C	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
	LIGHT THERMAL CRACKED NAPHTHA		.0 999.9
10	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	THERMAL CRACKING UNIT	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.

SAL 000003865

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
LIGHT THERMAL CRACKED NAPHTHA .0 999.9			
50	COKING UNIT	C	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
CI027 HYDROTREATED MIDDLE DISTILLATE .0 999.9			
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
70	H2 TREAT, DESULF/DENITRIF	C	CONOCO INC.
CI029 HYDRODESULFURIZED HEAVY NAPHTHA .0 999.9			
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
40	HYDROGEN TREATING UNIT	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
HYDRODESULFURIZED LIGHT NAPHTHA .0 999.9			
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
40	HYDROGEN TREATING UNIT	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
CI035 HDS SEPARATOR GAS .0 999.9			
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
40	HYDROGEN TREATING UNIT	C	CONOCO INC.
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
70	H2 TREAT, DESULF/DENITRIF	C	CONOCO INC.
CI036 HDS STRIPPER OVERHEAD GAS .0 999.9			
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	H2 TREAT, DESULF/DENITRIF	C	CONOCO INC.

SAL 000003866

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CI037	ACID GAS (SULFUR PLANT)		.0 999.9
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	SULFUR RECOVERY, CLAUS	C	CONOCO INC.
20	SULFURIC ACID MFG, CONTACT	C	CONOCO INC.
	SOUR GAS (SULFUR PLANT)		.0 999.9
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	SULFUR RECOVERY, CLAUS	C	CONOCO INC.
20	SULFURIC ACID MFG, CONTACT	C	CONOCO INC.
CI039	CTU OVERHEAD/DEBUTANIZER GAS		.0 999.9
30	CRUDE PROCESSING UNIT	C	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C	CONOCO INC.
70	CRUDE PROCESSING UNIT	C	CONOCO INC.
CI040	SOUR WATER STRIPPER ACID GAS		.0 999.9
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	SULFUR RECOVERY, CLAUS	C	CONOCO INC.
30	CAT CRACK, FLUID-BED W/O H2S R	C	CONOCO INC.
CI041	PBC DEETHANIZER TAIL GAS		.0 999.9
20	NO PROCESS CODE	C	CONOCO INC.
20	THERMAL CRACKING UNIT	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.

SAL 000003867

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REPORT LIST
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HYDROGEN SULFIDE

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
CI042	TAIL GAS STREAMS	.0 999.9
00	PLANT-WIDE/FIELD UNIT	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
30	NO PROCESS CODE	C CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	C CONOCO INC.
50	COKING UNIT	C CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	C CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C CONOCO INC.
70	NO PROCESS CODE	C CONOCO INC.
70	NO PROCESS CODE	C CONOCO INC.
CI043	RICH OIL	.0 999.9
60	CRUDE PROCESS, VIRGIN LT ENDS	C CONOCO INC.
	RICH SPONGE OIL	.0 999.9
60	CRUDE PROCESS, VIRGIN LT ENDS	C CONOCO INC.
CI046	STABILIZER OVERHEAD LIQUID	.0 999.9
40	CAT REFORM, W/O HYDROGENATION	C CONOCO INC.
70	CAT REFORM, W/ HYDRO W/ H2S RE	C CONOCO INC.
CI047	PROPANE INTERMEDIATE STREAM	.0 999.9
10	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	NO PROCESS CODE	C CONOCO INC.
20	SULFURIC ACID ALKYLATION UNIT	C CONOCO INC.
20	THERMAL CRACKING UNIT	C CONOCO INC.
30	CAT CRACK, FLUID-BED W/O H2S R	C CONOCO INC.

SAL 000003868

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CI047	PROPANE INTERMEDIATE STREAM		.0 999.9
30	BASOLINE POLYMERIZATION UNIT	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
CI048	PROPANE-BUTANE INTERMEDIATE STREAMS		.0 999.9
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	SULFUR RECOVERY, CLAUS	C	CONOCO INC.
30	CRYOGENIC FUEL GAS UNIT	C	CONOCO INC.
30	NO PROCESS CODE	C	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	CRUDE PROCESSING UNIT	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
CI051	LIGHT FEEDSTOCK - SM		.1 1.0
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
30	CRUDE PROCESSING UNIT	C	CONOCO INC.
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	C	CONOCO INC.
70	CRUDE PROCESSING UNIT	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
70	NO PROCESS CODE	C	CONOCO INC.
80	DOCK OPERATIONS UNIT	ABC	CONOCO INC.
CI053	CRUDE OIL (SOUR)		< .0 1.0
10	NO PROCESS CODE	C	CONOCO INC.

SAL 000003869

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REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER			
CI053	CRUDE OIL (SOUR)			<	.0	1.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.			
70	CRUDE PROCESSING UNIT	C	CONOCO INC.			
70	NO PROCESS CODE	C	CONOCO INC.			
80	DOCK OPERATIONS UNIT	C	CONOCO INC.			
CP002	CARBON BLACK OIL			<	.0	.1
80	DOCK OPERATIONS UNIT	AC	CONOCO INC.			
	DECANT OIL			<	.0	.1
10	RECEIPT/STORAGE/MOVEMENTS UNIT	AC	CONOCO INC.			
30	CAT CRACK, FLUID-BED W/O H2S R	AC	CONOCO INC.			
P012	FUEL GAS				1.0	10.0
00	PLANT-WIDE/FIELD UNIT	AC	CONOCO INC.			
12	NO PROCESS CODE	AC	CONOCO INC.			
30	NO PROCESS CODE	AC	CONOCO INC.			
70	NO PROCESS CODE	AC	CONOCO INC.			
CP013	BUNKER "C" FUEL			<	.0	1.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	AC	CONOCO INC.			
30	CRUDE PROCESSING UNIT	A	CONOCO INC.			
50	COKING UNIT	AC	CONOCO INC.			
60	COKE, DELAYED-FUEL GRADE W/ H2	AC	CONOCO INC.			
70	CRUDE PROCESSING UNIT	AC	CONOCO INC.			
80	DOCK OPERATIONS UNIT	ABC	CONOCO INC.			
	HEAVY RAILROAD FUEL			<	.0	1.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	AC	CONOCO INC.			
30	CRUDE PROCESSING UNIT	AC	CONOCO INC.			
50	COKING UNIT	AC	CONOCO INC.			
60	COKE, DELAYED-FUEL GRADE W/ H2	AC	CONOCO INC.			
70	CRUDE PROCESSING UNIT	AC	CONOCO INC.			

SAL 000003870

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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NO. 6 FUEL OIL

< .0 1.0

10	RECEIPT/STORAGE/MOVEMENTS UNIT	AC	CONOCO INC.
30	CRUDE PROCESSING UNIT	AC	CONOCO INC.
50	COKING UNIT	AC	CONOCO INC.
60	COKE, DELAYED-FUEL GRADE W/ H2	AC	CONOCO INC.
70	CRUDE PROCESSING UNIT	AC	CONOCO INC.

SAL 000003871

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
CP033	SPENT CAUSTIC		.0 999.9
20	NO PROCESS CODE	C	CONOCO INC.
20	NO PROCESS CODE	C	CONOCO INC.
20	SULFURIC ACID ALKYLATION UNIT	C	CONOCO INC.
30	CRUDE PROCESS, ATMOS DISTILL	C	CONOCO INC.
40	WASTE TREAT, AQUEOUS	C	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.

SAL 000003872

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CP034	MOLTEN SULFUR		< .0 .1
20	SULFUR RECOVERY, CLAUS	A	CONOCO INC.
GS198	HYDROGEN SULFIDE		100.0 100.0
00	PLANT-WIDE/FIELD UNIT	EGC	CONOCO INC.
20	NO PROCESS CODE	EGC	CONOCO INC.
20	NO PROCESS CODE	EGC	CONOCO INC.
20	NO PROCESS CODE	EGC	CONOCO INC.
20	NO PROCESS CODE	EGC	CONOCO INC.
30	NO PROCESS CODE	EGC	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	EGC	CONOCO INC.
50	COOKING UNIT	EGC	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	EGC	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	EGC	CONOCO INC.
70	NO PROCESS CODE	EGC	CONOCO INC.
70	NO PROCESS CODE	EGC	CONOCO INC.
70	NO PROCESS CODE	EGC	CONOCO INC.

SAL 000003873

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROGEN SULFIDE GAS

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
CI057	SOUR WATER WASTE STREAMS		.0 999.9
10	NO PROCESS CODE	E	CONOCO INC.
20	NO PROCESS CODE	E	CONOCO INC.
20	NO PROCESS CODE	E	CONOCO INC.
20	NO PROCESS CODE	E	CONOCO INC.
20	NO PROCESS CODE	E	CONOCO INC.
20	SULFURIC ACID MFG, CONTACT	E	CONOCO INC.
20	THERMAL CRACKING UNIT	E	CONOCO INC.
30	CRUDE PROCESSING UNIT	E	CONOCO INC.
30	NO PROCESS CODE	E	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	E	CONOCO INC.
40	HYDROGEN TREATING UNIT	E	CONOCO INC.
50	COKING UNIT	E	CONOCO INC.
60	CRUDE PROCESS, VIRGIN LT ENDS	E	CONOCO INC.
60	PLANT-WIDE/FIELD, OPERATIONS	E	CONOCO INC.
70	CRUDE PROCESSING UNIT	E	CONOCO INC.
70	NO PROCESS CODE	E	CONOCO INC.
70	NO PROCESS CODE	E	CONOCO INC.
70	NO PROCESS CODE	E	CONOCO INC.

SAL 000003874

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROQUINONE

AREA/ SECT CODE	TASK ROLES		MANUFACTURER
	CODE		

GS199 HYDROQUINONE 100.0 100.0

80 DOCK OPERATIONS UNIT D CARUS CHEMICAL CO.

SAL 000003875

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

HYDROQUINONE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GS608	KODAK PROSTAR PLUS DEVELOPER			2.0	2.0
00	PLANT-WIDE/FIELD, SRVCS-ENGR,I	FAXX	D	EASTMAN KODAK CO.	

SAL 000003876

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ISOPROPANOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
GS158	DURA-GARD AEROSOL			.0	999.9
00	PLANT-WIDE/FIELD, MAINTENANCE	DXXX D	NATIONAL CHEMSEARCH DIV. OF NCH CORP.		
GS178	GASGUARD			.0	999.9
00	PLANT-WIDE/FIELD, MAINTENANCE	DXXX D	NATIONAL CHEMSEARCH DIV. OF NCH CORP.		
GS254	VI-SEP 449 EMULSION BREAKER			5.0	10.0
70	CRUDE PROCESSING UNIT	D	NALCO CHEMICAL CO.		
GS277	PETROTEC PET1320			10.0	30.0
30	CAT CRACK, FLUID-BED W/O H ₂ S R	D	PETROLITE CORP.		
GS308	STATE CLR AEROSOL			<	.0 10.0
00	PLANT-WIDE/FIELD, MAINTENANCE	DXXX D	STATE CHEMICAL MFG. CO.		
GS328	KONTOL K-450			.0	999.9
30	PLANT-WIDE/FIELD, OPERATIONS	D	PETROLITE CORP.		
GS329	PETROTEC K-602			.0	999.9
30	CRUDE PROCESSING UNIT	D	PETROLITE CORP.		
GS441	BRILLIANCE AEROSOL			.0	999.9
00	PLANT-WIDE/FIELD UNIT	D	NATIONAL CHEMSEARCH DIV.		
GS535	NALCO 5602 DEGASSING CHEMICAL			1.0	10.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	D	NALCO CHEMICAL CO.		
GS581	ENHANCE AEROSOL			.0	999.9
00	PLANT-WIDE/FIELD UNIT	D	NATIONAL CHEMSEARCH		

SAL 000003877

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ISOPROPANOL

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER	
GS600		ANHYDROL SOLVENT SPECIAL, PH-4081, 190 PROOF		9.0 9.0
30		CRYOGENIC FUEL GAS UNIT		D UNION CARBIDE CORP.

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ISOPROPANOL

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER	
GS605	SOLUTION S0260 SPECIAL INDICAT		> 99.0 999.9	
12	UTILITY UNIT	BXXX F	MALCO CHEMICAL CO.	

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ISOPROPYL ALCOHOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS051	SLIMICIDE C31			.0 999.9
12	UTILITY UNIT	D	BETZ INDUSTRIAL	
99	REC/STOR/MOVE, WAREHOUSE	D	BETZ INDUSTRIAL	
GS179	256 GEL CLEANER			5.0 10.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	D	A. W. CHESTERTON CO.	
60	PLANT-WIDE/FIELD, OPERATIONS	D	A. W. CHESTERTON CO.	

SAL 000003880

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REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ISOPROPYL ALCOHOL

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
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GS201 ISOPROPYL ALCOHOL

> 99.0 999.9

60 CDR PRODUCTION UNIT

C ALPHA CHEMICAL CO.

SAL 000003881

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REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ISOPROPYL ALCOHOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS201	ISOPROPYL ALCOHOL			100.0 100.0
60	CDR PRODUCTION UNIT	D	DELTA DISTRIBUTORS INC.	

SAL 000003882

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ISOPROPYL ALCOHOL

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
GS201		ISOPROPYL ALCOHOL ELECTRONIC GRD	> 99.0 999.9
14	PLANT LABORATORY-QC	CDF	VAN WATERS & ROGERS INC.
99	REC/STOR/MOVE, WAREHOUSE	CDF	VAN WATERS & ROGERS INC.

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ISOPROPYL ALCOHOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GS276	PET1300			10.0	30.0
30	CAT CRACK, FLUID-BED W/O H2S R	D	PETROLITE CORP.		

SAL 000003884

MAR 26, 1990

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FOR TRADE NAMES OF COMPONENTS

ISOPROPYL ALCOHOL

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
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GS283 PETROTEC K 0456

.0 999.9

30 CRUDE PROCESSING UNIT

D PETROLITE CORP.

SAL 000003885

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

ISOPROPYL ALCOHOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS349	V-1500 WEED KILLER				.0	999.9
00	PLANT-WIDE/FIELD UNIT	D	KRAFTCO CHEMICAL CORP.			
GS350	LENS AND MIRROR CLEANER				< .0	5.0
00	OFFICE/NON-FIELD UNIT	D	XEROX CORP.			
GS388	FUEL OIL ADDITIVE NO. 939				25.0	25.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT			

SAL 000003886

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

LEAD

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS299	SODA ASH		.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	VAN WATERS & ROGERS INC.
99	REC./STOR/MOVE, WAREHOUSE	D	VAN WATERS & ROGERS INC.
GS542	CARBON AND ALLOY STEELS		< .0 1.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.
GS545	ALUMINUM ALLOY		< .0 1.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.
GS609	GRAPHALLOY		< .0 50.0
90	PLANT-WIDE/FIELD, MAINTENANCE	EXXX D	GRAPHITE METALLIZING CORP.

SAL 000003887

MAR 26, 1990

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LEAD

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
PC002		WHITE URETHANE ENAMEL 326Y		< .0 .2
00	PLANT-WIDE/FIELD UNIT	D	DU PONT	
10	PLANT-WIDE/FIELD UNIT	D	DU PONT	

SAL 000003888

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REPORT LIST
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M-CRESOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS115	NR. 573 CARBON AND VARNISH REMOVER	1.0	5.0
60	PLANT-WIDE/FIELD, MAINTENANCE	D	A. W. CHESTERTON CO.

SAL 000003889

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

H,P-CRESOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS447	DND-2		< .0 1.0
70	H2 TREAT, DESULF/DENITRIF	D	DU PONT

SAL 000003890

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

M-XYLENE

AREA/ SECT CODE	TASK ROLES		MANUFACTURER
	CODE		

GS351 XYLENES 40.0 65.0

14 PLANT LABORATORY-QC F J. T. BAKER CHEMICAL CO.

SAL 000003891

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

MANGANESE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER			
GS542	CARBON AND ALLOY STEELS			<	.0	1.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS543	STAINLESS STEELS			<	.0	10.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS544	CHROME PLATED CARBON STEEL			<	.0	2.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS545	ALUMINUM ALLOY			<	.0	2.0
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS546	NICKEL BASED ALLOY STEEL				.0	999.9
00	PLANT-WIDE/FIELD UNIT	D	HARMON/KEYSTONE CORP.			
GS570	MANGANESE, 1000 PPM (0.100% W/V)			<	.0	1.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.			

SAL 000003892

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LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

MERCURY

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS583			100.0 100.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	CC20 D	MAGNETROL INTERNATIONAL

SAL 000003893

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHANOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
FLUDEX WF 0017				10.0 30.0
30	CRUDE PROCESSING UNIT		D	PETROLITE CORP.
6S109	CARB CARE AEROSOL			.0 999.9
00	PLANT-WIDE/FIELD, MAINTENANCE	DXXX	D	NATIONAL CHEMSEARCH DIV. OF MCH CORP.

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHANOL

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER			
GS115	NR. 573 CARBON AND VARNISH REMOVER		1.0	5.0	
60	PLANT-WIDE/FIELD, MAINTENANCE	D A. W. CHESTERTON CO.			
GS132	COPALTITE		15.0	15.0	
00	PLANT-WIDE/FIELD, MAINTENANCE	D NATIONAL ENGINEERING PRODUCTS INC.			
GS175	FORMALIN		15.0	15.0	
20	SULFUR RECOVERY, CLAUS	D GENERAL ELECTRIC			
60	NO PROCESS CODE	D GENERAL ELECTRIC			
GS216	1-854		<	.0	1.0
00	PLANT-WIDE/FIELD, MAINTENANCE	D MATCOTE CO. INC.			
GS220	METHANOL		>	99.0	999.9
30	PLANT-WIDE/FIELD, OPERATIONS	ID CELANESE CHEMICAL CO. INC.			
80	DOCK OPERATIONS UNIT	ID CELANESE CHEMICAL CO. INC.			
80	NO PROCESS CODE	ID CELANESE CHEMICAL CO. INC.			
99	REC/STOR/MOVE, WAREHOUSE	ID CELANESE CHEMICAL CO. INC.			
30	CRYOGENIC FUEL GAS UNIT	D VAN WATERS & ROGERS INC.			
99	REC/STOR/MOVE, WAREHOUSE	I VAN WATERS & ROGERS INC.			

SAL 000003895

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHANOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS278	PETROTEC PET1330				10.0	20.0
20	SULFUR RECOVERY, CLAUS		D	PETROLITE CORP.		
GS327	KONTOL K-437				.0	999.9
20	SULFUR RECOVERY, CLAUS		D	PETROLITE CORP.		
GS396	METHANOL				90.0	100.0
14	PLANT LABORATORY-QC		F	J. T. BAKER CHEMICAL CO.		

SAL 000003896

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHANOL

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
GS600	ANHYDROL SOLVENT SPECIAL, PH-4081, 190 PROOF	4.0 4.0
30	CRYOGENIC FUEL GAS UNIT	D UNION CARBIDE CORP.

SAL 000003897

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL CHLOROFORM

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS382	ERADICATOR FIRE ANT MOUND FUMIGATOR				94.0	94.0
00	PLANT-WIDE/FIELD UNIT	CE60	D	ALLSTATES CHEMICAL CORP.		
GS537	03108 BLACK INK S-108				50.0	50.0
00	PLANT-WIDE/FIELD UNIT		D	SPRAYON PRODUCTS		
GS538	03105 WHITE INK B-105				15.0	15.0
00	PLANT-WIDE/FIELD UNIT		D	SPRAYON PRODUCTS		

SAL 000003898

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL ETHYL KETONE

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
GS001	3M SUPER WEATHERSTRIP ADHESIVE PN. 8001 - 8003 - 8004		> 24.0 999.9
00	PLANT-WIDE/FIELD, MAINT-ROUTIN	D 3M	
GS171	EZ WELD INDUSTRIAL GRADE PVC SOLVENT CEMENT		.0 999.9
00	PLANT-WIDE/FIELD, MAINTENANCE	D P.C.I. INDUSTRIES INC.	

SAL 000003899

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL ETHYL KETONE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS216	1-854		> 22.8 999.9
00	PLANT-WIDE/FIELD, MAINTENANCE	D	MATCOTE CO. INC.

SAL 000003900

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL ETHYL KETONE

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
GS427	ZINC RE-MJ (AEROSOL) 3074	> 6.0 999.9
00	PLANT-WIDE/FIELD, MAINTENANCE	D CRC CHEMICALS
GS489	421 CLEAR PROTECTIVE COATING (AEROSOL)	20.0 30.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D A. W. CHESTERTON CO.
GS510	MT50 BLEND	> 9.0 999.9
00	PLANT-WIDE/FIELD UNIT	D SOUTHWEST SOLV & CHEM
PC014	KRYLON INT./EXT. ENAMEL OR ENGINE COLOR	8.0 17.0
00	PLANT-WIDE/FIELD, MAINTENANCE	CR50 D BORDEN

SAL 000003901

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL ETHYL KETONE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
PC025	THA505/THA506 (1-8505 A & B)		< .0 8.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	CB50 D	INTERNATIONAL PAINT
PC026	THA525/THA526 (1-8525 A & B)		< .0 8.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	CB50 D	INTERNATIONAL PAINT
PC027	THA852/THA724 (1-852 A & B)		> 8.0 999.9
10	RECEIPT/STORAGE/MOVEMENTS UNIT	CB50 D	INTERNATIONAL PAINT
PC028	THA855/THA724 (1-850 A & B)		> 8.0 999.9
10	RECEIPT/STORAGE/MOVEMENTS UNIT	CB50 D	INTERNATIONAL PAINT

SAL 000003902

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL ETHYL KETONE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
PC030	PLASITE 7155 LIGHT GRAY			<	.0 30.0
00	PLANT-WIDE/FIELD UNIT	CB50	D	WISCONSIN PROTECTIVE COATINGS	
PC031	AEROSOLS, PAINT - LEAD FREE				.0 999.9
00	PLANT-WIDE/FIELD UNIT		D	RAABE PAINT CO. INC.	

SAL 000003903

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL ETHYL KETONE 2-BUTANONE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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PC032 PLASITE 9060 LIGHT BLUE

5.0 10.0

20 THERMAL CRACKING UNIT

D WISCONSIN PROTECTIVE COATINGS

SAL 000003904

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL NAPHTHALENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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CI054 HEAVY AROMATIC DISTILLATE

1.0 2.0

10	NO PROCESS CODE	C	DU PONT
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT
70	CRUDE PROCESSING UNIT	C	DU PONT
80	DOCK OPERATIONS UNIT	C	DU PONT

SAL 000003905

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYL TERTIARY BUTYL ETHER

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
6S366	METHYL TERTIARY BUTYL ETHER			> 60.0 999.9
10	NO PROCESS CODE	C	VALERO REFINING & MARKETING CO.	
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	VALERO REFINING & MARKETING CO.	
80	DOCK OPERATIONS UNIT	C	VALERO REFINING & MARKETING CO.	

SAL 000003906

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYLENE CHLORIDE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS007	OPEN GEAR, AEROSOL				20.0	20.0
00	PLANT-WIDE/FIELD, MAINTENANCE	D		ALLSTATES CHEMICAL CORP.		
GS099	CAP BATTERY CLEANER AND PROTECTOR				< .0	25.0
00	PLANT-WIDE/FIELD, MAINTENANCE	XXXX	D	STATE CHEMICAL MFG. CO.		
GS115	MR. 573 CARBON AND VARNISH REMOVER				65.0	70.0
60	PLANT-WIDE/FIELD, MAINTENANCE	D		A. W. CHESTERTON CO.		

SAL 000003907

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYLENE CHLORIDE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS117	MR. 740 HEAVY DUTY RUST GUARD (AEROSOL)			5.0 10.0
00	PLANT-WIDE/FIELD, MAINTENANCE	D	A. M. CHESTERTON CO.	

SAL 000003908

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYLENE CHLORIDE

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
GS214	MARSH SPRAY STENCIL INK YELLOW, GREEN & ORANGE		.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	MARSH STENCIL MACHINE CO.
GS215	MARSH SPRAY STENCIL INK BLACK, RED, WHITE, BLUE & SILVER		.0 999.9
00	PLANT-WIDE/FIELD UNIT	D	MARSH STENCIL MACHINE CO.

SAL 000003909

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYLENE CHLORIDE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GS273	GASKET REMOVER (AEROSOL)			75.0	75.0
00	PLANT-WIDE/FIELD, MAINTENANCE	D	PERMATEX INDUSTRIAL		

SAL 000003910

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

METHYLENE CHLORIDE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS427	ZINC RE-MU (AEROSOL) 3074				32.0	32.0
00	PLANT-WIDE/FIELD, MAINTENANCE		D	CRC CHEMICALS		
PC022	RED URETHANE SEAL COAT (AEROSOL) NO. 2044				19.0	19.0
00	PLANT-WIDE/FIELD, MAINTENANCE	CBS0	D	CRC CHEMICALS		
90	NO PROCESS CODE		D	CRC CHEMICALS		

SAL 000003911

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

MIXED CRESOLS & XYLENOLS

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GS438	DUPONT METAL DEACTIVATOR			5.0	5.0
70	H2 TREAT, DESULF/DENITRIF	D	DU PONT		
99	REC/STOR/MOVE, WAREHOUSE	D	DU PONT		
GS447	DMD-2			< .0	5.0
70	H2 TREAT, DESULF/DENITRIF	D	DU PONT		

SAL 000003912

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

MOLYBDENUM TRIOXIDE

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER
CA012	KATALCO 477		12.0 16.0
40	CAT REFORM, W/O HYDROGENATION	C	ICI KATALCO
40	HYDROGEN TREATING UNIT	C	ICI KATALCO

SAL 000003913

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

MOLYBDENUM TRIOXIDE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CA030	C29-2-02		10.0 15.0
20	SULFUR RECOVERY, CLAUSS	C	UNITED CATALYSTS INC.

SAL 000003914

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

MOLYBDENUM TRIOXIDE

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
CA047	N-239	10.0 15.0
20	SULFUR RECOVERY, CLAUS	C UNITED CATALYSTS INC.

SAL 000003915

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

.BE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CP020	LEADED REGULAR GASOLINE		< .0 15.0
10	NO PROCESS CODE	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.
CP021	SUPER UNLEADED GASOLINE		< .0 15.0
10	NO PROCESS CODE	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.
CP022	UNLEADED GASOLINE		< .0 15.0
10	NO PROCESS CODE	A	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.

SAL 000003916

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

N-BUTYL ALCOHOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS323			.0 999.9
20		D	PETROLITE CORP.
GS389			.0 999.9
10		C	BETZ PROCESS CHEMICALS INC.
GS534			.0 999.9
00		D	DUPONT

SAL 000003917

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

.PHTHALENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CI006	STRAIGHT RUN MIDDLE DISTILLATE		.0 999.9
10	NO PROCESS CODE	AC	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	AC	CONOCO INC.
30	CRUDE PROCESSING UNIT	AC	CONOCO INC.
30	NO PROCESS CODE	AC	CONOCO INC.
40	CAT REFORM, W/O HYDROGENATION	AC	CONOCO INC.
70	CRUDE PROCESSING UNIT	AC	CONOCO INC.
70	NO PROCESS CODE	AC	CONOCO INC.
70	NO PROCESS CODE	AC	CONOCO INC.
CI016	CRACKED DISTILLATE		< .0 3.0
10	NO PROCESS CODE	C	CONOCO INC.
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	CONOCO INC.
20	THERMAL CRACKING UNIT	C	CONOCO INC.
30	CAT CRACK, FLUID-BED W/O H2S R	C	CONOCO INC.
CI027	HYDROTREATED MIDDLE DISTILLATE		.0 999.9
60	HYDROGEN TREATING UNIT	C	CONOCO INC.
70	H2 TREAT, DESULF/DEMITRIF	C	CONOCO INC.
CI043	RICH OIL		.0 999.9
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.
	RICH SPONGE OIL		.0 999.9
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.
CI054	HEAVY AROMATIC DISTILLATE		4.0 6.0
10	NO PROCESS CODE	C	DU PONT
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT
70	CRUDE PROCESSING UNIT	C	DU PONT
80	DOCK OPERATIONS UNIT	C	DU PONT

SAL 000003918

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NAPHTHALENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
CP009	NO. 1 DIESEL FUEL		3.0 3.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
30	CRUDE PROCESSING UNIT	A	CONOCO INC.
50	COKING UNIT	A	CONOCO INC.
60	COKE, DELAYED-FUEL GRADE W/ H2	A	CONOCO INC.
70	CRUDE PROCESSING UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.
CP010	NO. 2 DIESEL FUEL		3.0 3.0
10	MAINTENANCE SHOP UNIT	A	CONOCO INC.
10	NO PROCESS CODE	A	CONOCO INC.
30	CRUDE PROCESSING UNIT	A	CONOCO INC.
50	COKING UNIT	A	CONOCO INC.
60	COKE, DELAYED-FUEL GRADE W/ H2	A	CONOCO INC.
70	CRUDE PROCESSING UNIT	A	CONOCO INC.
80	DOCK OPERATIONS UNIT	A	CONOCO INC.
CP024	JET A		<= .0 3.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
30	CRUDE PROCESSING UNIT	A	CONOCO INC.
40	HYDROGEN TREATING UNIT	A	CONOCO INC.
JET A-FSII			<= .0 3.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	A	CONOCO INC.
30	CRUDE PROCESSING UNIT	A	CONOCO INC.
40	HYDROGEN TREATING UNIT	A	CONOCO INC.
GS163	LIGHT FUEL OIL		7.0 33.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	C	DU PONT
GS359	NALCO 5701 PROCESS ANTIFOAM		1.0 10.0
70	CRUDE PROCESSING UNIT	D	NALCO CHEMICAL CO.

SAL 000003919

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

PHAPHTHALENE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER		
GS362	NALCO 5186 CORROSION INHIBITOR				1.0	10.0
70	CRUDE PROCESSING UNIT		D	NALCO CHEMICAL CO.		
GS429	NALCO 87RC130				1.0	10.0
60	COKE, DELAYED-FUEL GRADE W/ H2		C	NALCO CHEMICAL CO.		
GS611	NALCO 5209 ANTIFOULANT				1.0	10.0
10	RECEIPT/STORAGE/MOVEMENTS UNIT	BB11	D	NALCO CHEMICAL CO.		

SAL 000003920

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NICKEL

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
CA010	HYDROGEN TREATING CATALYSTS	.0 999.9
20	SULFUR RECOVERY, CLAUS	0 AMERICAN CYANAMID CO.

SAL 000003921

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NICKEL

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER
CA045	NICKEL ON SILICA/ALUMINA	.0 999.9
40	H2 TREAT, SATUR-AROMATIC	C CALSICAT

SAL 000003922

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NICKEL

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER	
GS116	NR. 725 NICKEL ANTI-SEIZE COMPOUND (BULK)		25.0	30.0
00	PLANT-WIDE/FIELD UNIT	D	A. W. CHESTERTON CO.	

SAL 000003923

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NICKEL

AREA/ SECT CODE	TASK ROLES CODE	MANUFACTURER			
GS116	725 NICKEL ANTI-SEIZE COMPOUND (BULK AND PRESSURIZED CAN)		25.0	30.0	
00	PLANT-WIDE/FIELD UNIT	D A. W. CHESTERTON CO.			
GS542	CARBON AND ALLOY STEELS		<	.0	10.0
00	PLANT-WIDE/FIELD UNIT	D HARMON/KEYSTONE CORP.			
GS543	STAINLESS STEELS		<	.0	34.0
00	PLANT-WIDE/FIELD UNIT	D HARMON/KEYSTONE CORP.			
GS544	CHROME PLATED CARBON STEEL		<	.0	1.0
00	PLANT-WIDE/FIELD UNIT	D HARMON/KEYSTONE CORP.			
GS546	NICKEL BASED ALLOY STEEL			.0	999.9
00	PLANT-WIDE/FIELD UNIT	D HARMON/KEYSTONE CORP.			
GS572	NICKEL, 1000 PPM (0.100% W/V)		<	.0	1.0
14	PLANT LABORATORY-QC	F J. T. BAKER INC.			

SAL 000003924

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NICKEL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS598			9.0 9.0
20		D	NORTON CO.

SAL 000003925

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NICKEL

AREA/ SECT CODE		TASK ROLES CODE	MANUFACTURER	
GS609	GRAPHALLOY		<	.0 50.0
90	PLANT-WIDE/FIELD, MAINTENANCE	EXXX D	GRAPHITE METALLIZING CORP.	

SAL 000003926

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NITRIC ACID

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER		
GS262	NITRIC ACID			65.0	75.0
00	PLANT-WIDE/FIELD UNIT	OG	J. T. BAKER CHEMICAL CO.		
20	NO PROCESS CODE	OG	J. T. BAKER CHEMICAL CO.		
GS563	CADMIUM, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
GS564	CALCIUM, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
GS566	COPPER, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
67	IRON, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
GS568	LEAD, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
GS570	MANGANESE, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
GS572	NICKEL, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
GS573	POTASSIUM, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
GS575	SODIUM, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		

SAL 000003927

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NITRIC ACID

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GS576	VANADIUM, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		
GS577	ZINC, 1000 PPM (0.100% W/V)			1.0	2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER INC.		

SAL 000003928

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

NITRIC ACID (0.3 MOLAR)

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS569			1.0 2.0
14	PLANT LABORATORY-QC	F	J. T. BAKER CHEMICAL CO.

SAL 000003929

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

O-CRESOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS115	MR. 573 CARBON AND VARNISH REMOVER	1.0 5.0	
60	PLANT-WIDE/FIELD, MAINTENANCE	D	A. W. CHESTERTON CO.
GS447	DMD-2	< .0 1.0	
70	H2 TREAT, DESULF/DENITRIF	D	DU PONT

SAL 000003930

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

O-XYLENE

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER	
GS351	XYLENES			15.0	20.0
14	PLANT LABORATORY-QC	F	J. T. BAKER CHEMICAL CO.		

SAL 000003931

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

P-CRESOL

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
GS115	NR. 573 CARBON AND VARNISH REMOVER		1.0 5.0
60	PLANT-WIDE/FIELD, MAINTENANCE	D	A. W. CHESTERTON CO.

SAL 000003932

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

P-XYLENE

AREA/ SECT CODE	TASK CODE	ROLES	MANUFACTURER
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GS351	XYLENES		< .0 20.0
14	PLANT LABORATORY-QC	F	J. T. BAKER CHEMICAL CO.

SAL 000003933

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

PHENOL

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
CP033	SPENT CAUSTIC			.0 999.9
20	NO PROCESS CODE	C	CONOCO INC.	
20	NO PROCESS CODE	C	CONOCO INC.	
20	SULFURIC ACID ALKYLATION UNIT	C	CONOCO INC.	
30	CRUDE PROCESS, ATMOS DISTILL	C	CONOCO INC.	
40	WASTE TREAT, AQUEOUS	C	CONOCO INC.	
60	CRUDE PROCESS, VIRGIN LT ENDS	C	CONOCO INC.	

SAL 000003934

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

PHENOL

AREA/ SECT CODE		TASK	ROLES	MANUFACTURER		
GS447	DMD-2			<	.0	1.0
70	H2 TREAT, DESULF/DENITRIF	D	DU PONT			
GS492	823 ALUMINUM PUTTY PLUS PART B			<	.0	2.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	A. W. CHESTERTON CO.			
GS498	810 STEEL PUTTY PLUS PART B			<	.0	2.0
90	PLANT-WIDE/FIELD, MAINT-ROUTIN	D	A. W. CHESTERTON CO.			

SAL 000003935

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

PHENOL (HYDROXY BENZENE)

AREA/ SECT CODE		TASK	ROLES CODE	MANUFACTURER
CI057	SOUR WATER WASTE STREAMS			.0 999.9
10	NO PROCESS CODE	E	CONOCO INC.	
20	NO PROCESS CODE	E	CONOCO INC.	
20	NO PROCESS CODE	E	CONOCO INC.	
20	NO PROCESS CODE	E	CONOCO INC.	
20	NO PROCESS CODE	E	CONOCO INC.	
20	SULFURIC ACID MFG, CONTACT	E	CONOCO INC.	
20	THERMAL CRACKING UNIT	E	CONOCO INC.	
30	CRUDE PROCESSING UNIT	E	CONOCO INC.	
30	NO PROCESS CODE	E	CONOCO INC.	
40	CAT REFORM, W/O HYDROGENATION	E	CONOCO INC.	
40	HYDROGEN TREATING UNIT	E	CONOCO INC.	
50	COKING UNIT	E	CONOCO INC.	
60	CRUDE PROCESS, VIRGIN LT ENDS	E	CONOCO INC.	
60	PLANT-WIDE/FIELD, OPERATIONS	E	CONOCO INC.	
70	CRUDE PROCESSING UNIT	E	CONOCO INC.	
70	NO PROCESS CODE	E	CONOCO INC.	
70	NO PROCESS CODE	E	CONOCO INC.	
70	NO PROCESS CODE	E	CONOCO INC.	

SAL 000003936

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

PHOSPHORIC ACID

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS024	ALPHACHEN 3212 ACID CLEANER			.0 999.9
50	COKING UNIT	D	ALPHA CHEMICAL CO.	
60	PLANT-WIDE/FIELD, OPERATIONS	D	ALPHA CHEMICAL CO.	

MAR 26, 1990

LAKE CHARLES REFINERY
REPORT LIST
FOR TRADE NAMES OF COMPONENTS

PHOSPHORIC ACID

AREA/ SECT CODE		TASK CODE	ROLES	MANUFACTURER
GS085	BETZ 40P			.0 999.9
12	UTILITY UNIT	D	BETZ INDUSTRIAL	
99	REC/STOR/MOVE, WAREHOUSE	D	BETZ INDUSTRIAL	

SAL 000003938