

US EPA ARCHIVE DOCUMENT

	B	C
1	<b>Source Description</b>	
2		
3	Phase II ID No.	2004
4	EPA ID No.	LAD008161234
5	Facility Name	Rhodia (formerly Rhone-Poulenc Basic Chemical Co.)
6	Facility Location	
7	City	Baton Rouge
8	State	LA
9	Unit ID Name/No.	Unit 1
10	Other Sister Facilities	None
11	Combustor	Sulfur Acid Recovery Unit
12	Combustor Characteristics	
13	Capacity (MMBtu/hr)	140
14	Soot Blowing	
15	APCS	Wet ESP
16	APCS Characteristics	
17	Hazardous Wastes	Liq
18	Haz Waste Description	Viscous liquid fuel
19	Supplemental Fuel	Natural gas
20		
21	Stack Characteristics	
22	Diameter (ft)	
23	Height (ft)	
24	Gas Velocity (ft/sec)	18
25	Gas Temperature (°F)	95
26		
27	Permitting Status	
28	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Condition Description</b>	
2		
3		
4	<b>2004C1</b>	
5		
6	Report Name/Date	Trial Burn Results, October 1989
7	Report Prepare	Rohne-Poulenc Basic Chemical Co.
8	Testing Firm	Preiser Laboratories
9	Testing Dates	October 16, 1989
10	Condition Descr	Trial burn; max feedrate
11	Content	PM, CO, HC, HCl, DRE, NOx, SO2 (PICs)

	B	C	D	E	F	G	H	I	J	K	L	M
1	<b>Stack Gas Emissions</b>											
2												
3		Comments	Units	7% O2								
4												
5	<b>2004C1</b>					R1		R2		R3		Cond Avg
6												
7	PM		lb/hr			0.44		0.62		0.54		
8	PM		mg/dscm	n		2.37		3.44		3.12		
9	PM		gr/dscf	y		0.0012		0.0016		0.0014		0.0014
10	HCl		mg/dscm	n		1.17		1.56		1.36		
11	HC (RA)		ppmv	n		0.2		0.35		0.27		
12	CO (RA)		ppmv	n		40.9		44.5		29.8		
13	SO2		ppmv	n		1530		1680		1660		
14	NOx		ppmv	n		19		17.2		18.5		
15												
16	(Stack Gas Flowrate)		dscfm			49639		48189		46276		48035
17	Oxygen		%			8.12		7.46		7.46		8
18												
19	HCl		ppmv	y		0.78		1.04		0.91		0.91
20	Total Chlorine		ppmv	y		0.78		1.04		0.91		0.91
21	HC (RA)		ppmv	y		0.22		0.36		0.28		0.29
22	CO (RA)		ppmv	y		44.46		46.01		30.81		40.43
23	assumed that Cl2 is caught as part of the HCl train											
24												
25	<b>POHCs</b>											
26	POHC DRE	Carbon tetrachloride (CCl4)										
27	POHC Feedrate		lb/hr			4.7		4.9		5.3		
28	Emissions Rate		lb/hr			0.000016		0.0012		0.000029		
29	DRE		%			99.99999		99.99961		99.99999		
30												
31	POHC DRE	1,1,1-trichloroethane (C2H3Cl3)										
32	POHC Feedrate		lb/hr			4.5		5		4.6		
33	Stack Gas Emissions		lb/hr			0.0000078		0.0000084		0.0000078		
34	DRE		%		>	99.99999	>	99.99999	>	99.99999		
35	POHC DRE	Toluene										
36	POHC Feedrate		lb/hr			4		4.7		4.2		
37	Stack Gas Emissions		lb/hr			0.00011		0.000034		0.000013		
38	DRE		%			99.99996		99.99998		99.99999		
39												
40	POHC DRE	C6H6										
41	POHC Feedrate		lb/hr									
42	Stack Gas Emissions		lb/hr			0.000053		0.00019		0.000019		
43	DRE		%									
44												
45	<b>PICs</b>											
46	Unknown	(m/z 46)	lb/hr			ND		0.001		0.001		
47	Trichlorofluoromethane		lb/hr			0.0002		ND		0.0007		
48	Carbon oxygen sulfide		lb/hr			0.001		0.0008		0.0016		
49	Carbon disulfide		lb/hr			0.003		0.013		0.0082		
50	Unknown	(m/z 57)	lb/hr			0.0002		ND		ND		
51	Chloroform		lb/hr			ND		ND		0.00002		
52	Benzene		lb/hr			0.0003		0.001		0.0003		
53	C6		lb/hr			0.0007		ND		ND		
54	C7		lb/hr			0.0003		0.002		0.0003		
55	C8		lb/hr			0.0003		0.0003		0.0003		
56	C9		lb/hr			0.00001		0.0002		0.0003		
57	C10		lb/hr			0.00008		0.01		ND		
58	C11		lb/hr			0.0001		0.0003		0.0001		
59	Alkanes NOS		lb/hr			0.00008		ND		ND		
60	Methylcyclohexane		lb/hr			0.0013		0.001		ND		
61	Benzonitrile		lb/hr			ND		0.00005		0.00005		

	B	C	D	E	F	G	H	I	J	K	L	M	N
1	<b>Feedrates</b>												
2													
3													
4	<b>2004C1</b>												
5	Feed Class 2												
6	Feedstream Description												
7	Feed Rate		lb/min		Synthetic Fuel	55	Viscous Fuel	20.2	Natural Gas	176	Spent Acid		Cond Avg Total
8	Feed Rate		scfm										
9	Feed Rate		gpm								68		
10	Thermal Feedrate		M2Btu/hr						10.6				150
11	Ash		lb/min			7.67		1.2					1.2
12	Chlorine		lb/min			41		0.20					7.9
13	Diesel		lb/min			5							
14	Carbon Tet.		lb/min			4.7							
15	1,1,1 TCE		lb/min			4.4							
16	Toluene		lb/min					0.7					
17													
18	Stack Gas Flowrate		dscfm										48035
19	Oxygen		%										8
20													
21	Estimated Firing Rate		M2Btu/hr										203.1
22													
23	<i>Feedrate MTEC Calculations</i>												
24	Ash		mg/dscm										421.2
25	Chlorine		ug/dscm										2762560

	A	B	C
1	<b>Process Information</b>		
2			
3	<b>2004C1</b>		Cond Avg
4			
5	Furnace Oxygen	%	4
6	Furnace Temp	°F	1800
7	Volumetric Flow	acfm	1550