

	B	C
1	<b>Source Description</b>	
2		
3	Phase II ID No.	1016
4	EPA ID No.	TXD067261412
5	Facility Name	BASF Corporation
6	Facility Location	
7	City	Beaumont
8	State	TX
9	Unit ID Name/No.	WOD K541
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	WS
18	APCS General Class	LEWS
19	APCS Characteristics	
20	Hazardous Wastes	Liq
21	Haz Waste Description	DCP Waste Feed, WWTB Waste Feed, Caustic Feed, Process Water
22	Supplemental Fuel	?
23		
24	Stack Characteristics	
25	Diameter (ft)	2.5
26	Height (ft)	
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	
29		
30	Permitting Status	Tier I for metals and chlorine
31	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Cond Description</b>	
2		
3	<b>1016C1</b>	
4		
5	Report Name/Date	Source Emissions Survey BASF Corp. WOD K541 Stack Risk Burn; No report date
6	Report Prepare	METCO Environmental
7	Testing Firm	METCO Environmental
8	Testing Dates	September 21-24, 1998
9	Cond Dates	Sep-98
10	Condition Descr	Trial Burn/Risk Burn
	Content	
11		Stack PM, HCl, Cl2, D/F, SVOC, Total Organics, CO, and O2; Metals, D/F, Chlorine, VOCs characterization of waste feed steams.

	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												
6	<b>1016C1</b>	<b>(Risk Burn)</b>				R1	R2	R3	Cond Avg			
7												
8	PM	E1	gr/dscf	y		0.0039	0.0034	0.0028	0.0034			
9	CO (RA)	E1	ppmv	y		0.5	0.2	0.2	0.30			
10	HCl		ppmv	n		0.68	0.62	0.58	0.63			
11	Cl2		ppmv	n		0.03	0.03	0.03	0.03			
12												
13	Sampling Train	PM, HCl/Cl2	E1									
14	Stack Gas Flowrate		dscfm			2278	2257	2364	2299.67			
15	O2		%			3	3.5	3.7	3.40			
16	Moisture		%			45.18	44.52	44.03	44.58			
17	Temperature		°F			189	190	189	189.33			
18												
19	HCl	E1	ppmv	y		0.53	0.50	0.47	0.50			
20	Cl2	E1	ppmv	y		0.02	0.02	0.02	0.02			
21	Total Chlorine	E1	ppmv	y		0.58	0.54	0.52	0.55			
22												
23	Particle Size Distribution in microns											
24												
25	0.5-2.5		% wt			58	63	84				
26	>2.5-5.0		% wt			40	18	15				
27	>5.0-7.5		% wt			2	17	1				
28	>7.5-10.0		% wt			0	1	0				
29	>10		% wt			0	0	0				

A	B	C	D	E	F	G	H	I	J
1	<b>Feedstreams</b>								
2									
3									
4	*	<b>1016C1 (Risk Burn)</b>							
5									
6		Feedstream Number							
7		Feed Class							
8		Feed Class 2							
9		Feedstream Description							
10		Feed Rate							
11		Viscosity	g/hr						
12		Heating Value	cSt						
13		Density	Btu/lb		8902				
14		Ash	g/ml		1.477				
15		Chlorine	% wt	nd	0.02	nd			
16		Antimony	%wt		38.3				
17		Arsenic	ppmw	nd	6	nd			
18		Barium	ppmw	nd	30	nd			
19		Beryllium	ppmw	nd	20	nd			
20		Cadmium	ppmw	nd	0.5	nd			
21		Chromium	ppmw	nd	0.5	nd			
22		Lead	ppmw	nd	1	nd			
23		Mercury	ppmw	nd	2				
24		Silver	ppmw	nd	10	nd			
25		Thallium	ppmw	nd	0.03	nd			
26		Selenium	ppmw	nd	1	nd			
27		Nickel	ppmw	nd	200	nd			
28			ppmw	nd	25	nd			
29		Stack Gas Flowrate	dscfm		6.3	nd			
30		Oxygen	%		2299.7				
31					3.4				
32		Estimated Firing Rate	MMBtu/hr		12.8				
33									
34		need total waste feedrates to calculate MTECs							
35									
36		approx waste feedrate			1443.37578				
37									
38		approx feedrate MTECs							
39									
40		Antimony	ug/dscm	100	801			100	801
41		Arsenic	ug/dscm	100	4005			100	4005
42		Barium	ug/dscm	100	2670			100	2670
43		Beryllium	ug/dscm	100	67			100	67
44		Cadmium	ug/dscm	100	67			100	67
45		Chromium	ug/dscm	100	133			100	133
46		Lead	ug/dscm	100	1335			100	1335
47		Mercury	ug/dscm	100	4			100	4
48		Silver	ug/dscm	100	133			100	133
49		Thallium	ug/dscm	100	26698			100	26698
50		Selenium	ug/dscm	100	3337			100	3337
51		Nickel	ug/dscm	100	841			100	841
52		SVM	ug/dscm	100	1402			100	1402
53		LVM	ug/dscm	100	4205			100	4205

A	
1	<b>Process Information</b>
2	
3	<b>1016C1</b>
4	
5	None available

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	<b>PCDD/PCDF</b>																
2	N																
3	Facility Name and ID:	BASF Corporation, Beaumont, TX															
4	Condition ID:	1016C1															
5	Condition/Test Date:	Trial Burn/Risk Burn; September 21-24, 1998															
6																	
7		I-TEF															
8		Wght Fact															
9																	
10	Detected in sample volume (ng)																
11	2,3,7,8-TCDD	1															
12	TCDD Total	0	0.089	0.0890	0.0890	0.0890	0.0890	0.0890	0.074	0.0740	0.0740	0.0740	0.0740	0.081	0.0810	0.0810	0.0810
13	1,2,3,7,8-PCDD	0.5	0.540	0.0000	0.5400	0.5400	0.0000	0.0000	0.5	0.0000	0.5000	0.0000	0.0000	0.54	0.0000	0.5400	0.0000
14	PCDD Total	0	0.049	0.0245	0.0490	0.0490	0.0245	0.0245	0.051	0.0255	0.0510	0.0255	0.0255	0.047	0.0235	0.0470	0.0235
15	1,2,3,4,7,8-HxCDD	0.1	0.520	0.0000	0.5200	0.5200	0.0000	0.0000	0.53	0.0000	0.5300	0.0000	0.0000	0.47	0.0000	0.4700	0.0000
16	1,2,3,6,7,8-HxCDD	0.1	0.030	0.0030	0.0300	0.0300	0.0030	0.0030	0.033	0.0033	0.0330	0.0033	0.0033	0.03	0.0030	0.0300	0.0030
17	1,2,3,7,8,9-HxCDD	0.1	0.110	0.0110	0.1100	0.1100	0.0110	0.0110	0.12	0.0120	0.1200	0.0120	0.0120	0.089	0.0089	0.0890	0.0089
18	HxCDD Total	0	0.060	0.0060	0.0600	0.0600	0.0060	0.0060	0.058	0.0058	0.0580	0.0058	0.0058	0.05	0.0050	0.0500	0.0050
19	1,2,3,4,6,7,8-HpCDD	0.01	0.740	0.0000	0.7400	0.7400	0.0000	0.0000	0.76	0.0000	0.7600	0.0000	0.0000	0.59	0.0000	0.5900	0.0000
20	HpCDD Total	0	0.027	0.0003	0.0270	0.0270	0.0003	0.0003	0.29	0.0029	0.2900	0.0029	0.0029	0.2	0.0020	0.2000	0.0020
21	OCDD	0.001	0.450	0.0000	0.4500	0.4500	0.0000	0.0000	0.5	0.0000	0.5000	0.0000	0.0000	0.34	0.0000	0.3400	0.0000
22	2,3,7,8-TCDF	0.1	0.990	0.0010	0.9900	0.9900	0.0010	0.0010	0.86	0.0009	0.8600	0.0009	0.0009	0.35	0.0004	0.3500	0.0004
23	TCDF Total	0	2.500	0.2500	2.5000	2.5000	0.2500	0.2500	1.9	0.1900	1.9000	0.1900	0.1900	2.1	0.2100	2.1000	0.2100
24	1,2,3,7,8-PCDF	0.05	17.000	0.0000	17.0000	17.0000	0.0000	0.0000	15	0.0000	15.0000	0.0000	0.0000	18	0.0000	18.0000	0.0000
25	2,3,4,7,8-PCDF	0.5	0.074	0.0037	0.0740	0.0740	0.0037	0.0037	0.64	0.0320	0.6400	0.0320	0.0320	0.62	0.0310	0.6200	0.0310
26	PCDF Total	0	0.620	0.3100	0.6200	0.6200	0.3100	0.3100	0.59	0.2950	0.5900	0.2950	0.2950	0.57	0.2850	0.5700	0.2850
27	1,2,3,4,7,8-HxCDF	0.1	7.200	0.0000	7.2000	7.2000	0.0000	0.0000	7.1	0.0000	7.1000	0.0000	0.0000	7	0.0000	7.0000	0.0000
28	1,2,3,6,7,8-HxCDF	0.1	0.850	0.0850	0.8500	0.8500	0.0850	0.0850	0.84	0.0840	0.8400	0.0840	0.0840	0.71	0.0710	0.7100	0.0710
29	2,3,4,6,7,8-HxCDF	0.1	0.530	0.0530	0.5300	0.5300	0.0530	0.0530	0.54	0.0540	0.5400	0.0540	0.0540	0.45	0.0450	0.4500	0.0450
30	1,2,3,7,8,9-HxCDF	0.1	0.380	0.0380	0.3800	0.3800	0.0380	0.0380	0.39	0.0390	0.3900	0.0390	0.0390	0.35	0.0350	0.3500	0.0350
31	HxCDF Total	0	0.190	0.0190	0.1900	0.1900	0.0190	0.0190	0.22	0.0220	0.2200	0.0220	0.0220	0.19	0.0190	0.1900	0.0190
32	1,2,3,4,6,7,8-HpCDF	0.01	4.700	0.0000	4.7000	4.7000	0.0000	0.0000	5	0.0000	5.0000	0.0000	0.0000	4.3	0.0000	4.3000	0.0000
33	1,2,3,4,7,8,9-HpCDF	0.01	1.000	0.0100	1.0000	1.0000	0.0100	0.0100	1.2	0.0120	1.2000	0.0120	0.0120	0.94	0.0094	0.9400	0.0094
34	HpCDF Total	0	0.300	0.0030	0.3000	0.3000	0.0030	0.0030	0.33	0.0033	0.3300	0.0033	0.0033	0.27	0.0027	0.2700	0.0027
35	OCDF	0.001	2.000	0.0000	2.0000	2.0000	0.0000	0.0000	2.3	0.0000	2.3000	0.0000	0.0000	1.9	0.0000	1.9000	0.0000
36			0.5500	0.0006	0.5500	0.5500	0.0006	0.0006	0.55	0.0006	0.5500	0.0006	0.0006	0.39	0.0004	0.3900	0.0004
37	Gas sample volume (discf)		124.68	124.68	124.68	124.68	124.68	124.68	126.62	126.62	126.62	126.62	126.62	127.48	127.48	127.48	127.48
38	O2 (%)		3.00	3.00	3.00	3.00	3.00	3.00	3.50	3.50	3.50	3.50	3.50	3.70	3.70	3.70	3.70
39																	
40	PCDD/PCDF (ng in sample)		34.690	0.907	34.690	34.690	0.907	0.907	33.100	0.856	33.100	0.856	0.856	33.880	0.832	33.880	0.832
41	PCDD/PCDF (ng/dscm @ 7% O2)		0.0	7.647	0.200	7.647	0.200	0.200	7.390	0.191	7.390	0.191	0.191	7.600	0.187	7.600	0.187
42																	
43	TEQ Cond Avg		0.193														
44	Total Cond Avg		7.5454														