Name of Responsible Official (typed or printed)

Signature of Responsible Official



## AIR EMISSION STATEMENT CERTIFICATION

State Form 52052 (3-05)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

permit.

Instructions:This is a required form for each air emission statement as well as any modifications.

• The certification supplied with a source's permit may be used in lieu of this form

IDEM - Office of Air Quality Technical Support and Modeling Section - Mail Code 61-51 100 N. Senate Avenue Indianapolis, IN 46204-2251 Telephone: (317) 233-0178 or

Toll Free: 1-800-451-6027 x30178 (within Indiana) http://www.emissions.IN.gov/

1. Company Name: MonoSol LLC		2. Source ID:	1812700131
3. Mailing Address: 1500 Louis Sullivan Drive		<b>12.</b> 300. 60 15.	
City: Portage	State: IN	ZIP Code:	46368
4. Name of Emission Statement Preparer:	Paul	Brooks	
5. Title of Emission Statement Preparer(optional		nental Coordinator	
3. The of Emission Statement Freparer (optional			
<b>6</b> . Telephone Number: (219)-716-4017	7. Facsimile Nun	nber:(optional):	
8. Electronic Mail Address (optional): Pa	aul.brooks@kuraray.c	om	
	Part B: Emissions	Summary	
art B is intended to aid in the review of data and	to collect information	about billable hazardou	s air pollutants
missions Statement Pollutants (Plant Wide	)		Tons Emitted
mmonia			0.755
arbon Monoxide (CO)			19.837
ondensable Particulate Matter (PM-CON)			1.346
ilterable Particulate Matter <10 Microns (PM10-F	IL)		0.448
ead (PB)			0.000
itrogen Dioxide (NO2)			23.616
rimary PM2.5, Filterable Portion Only			0.448
			0.14
ulfur Dioxide (SO2)			66.618
ulfur Dioxide (SO2) olatile Organic Compounds (VOC)			00.010
	ants (Plant Wide)		Tons Emitted
olatile Organic Compounds (VOC)	ants (Plant Wide)		
olatile Organic Compounds (VOC)  art 70 Permit Billable Hazardous Air Polluta o Billable Hazardous Air Pollutants reported!	ants (Plant Wide) Signature of Resp		Tons Emitted

Title of Responsible Official

Date (month, day, year)

June 27, 2024

• "Responsible Official" has the same meaning as defined in 326 IAC (34), and is usually designated in the General Information section of the

### **MonoSol LLC**

Plant ID:1812700131 Report for 2023

Location: 1500 Louis Sullivan Dr, Portage, 46368

Facility Emissions Overview			
Pollutant	Pollutant Description	Emissions (Tons)	
NH3	Ammonia	0.7557	
со	Carbon Monoxide	19.8376	
7439921	Lead	0.0001	
NOX	Nitrogen Oxides	23.6162	
PM-CON	Primary PM Condensible Only (All Less Than 1 Micron)	1.3461	
PM10-FIL	Primary PM10, Filterable Portion Only	0.4487	
PM25-FIL	Primary PM2.5, Filterable Portion Only	0.4487	
SO2	Sulfur Dioxide	0.1417	
VOC	Volatile Organic Compounds	66.6189	

Group ID: L20		Group Description:L20 Film Casting Line		
Percent Quarterly	Throughput			
Winter: 25	Spring: 25	Summer: 25	<b>Fall:</b> 25	
Days Per Week: 7	Weeks Per Year: 51	Hours Per Day: 24 Hours Per Year: 8568		
Process ID: L20		Process Description	on: Process	
SCC:	30801003	Stack:	L20	
	Rubber and Miscellaneous Plastics Products	Description:	Line L20 Oven	
	Plastic Products Manufacturing	Stack Type:	Vertical	
	Film Production, Die (Flat/Circular)	Height:	40	
Heat Content:	0	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	11.1049 Tons	Gas Flow:	9599	
Material:	VOCs	Input/Output: Process Material Produced (Outut)		
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Material Balance	0	0	11.1049

### **MonoSol LLC**

Plant ID:1812700131 Report for 2023

Location: 1500 Louis Sullivan Dr, Portage, 46368

Process ID: NG		Process Description	on: Natural Gas	
SCC:	10200602	Stack:	L20	
	Industrial	Description:	Line L20 Oven	
	Natural Gas	Stack Type:	Vertical	
	10-100 Million Btu/hr	Height:	40	
Heat Content:	12.54	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	92.8336 Million Cubic Feet	Gas Flow:	9599	
Material:	Natural Gas	Input/Output:	Process Material Used (Inpu	ıt)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0.1485
SO2	EPA Emission Factor	0.6	0	0.0279
со	EPA Emission Factor	84	0	3.8990
PM-CON	EPA Emission Factor	5.7	0	0.2646
PM10-FIL	EPA Emission Factor	1.9	0	0.0882
7439921	EPA Emission Factor	0.0005	0	0.0000
PM25-FIL	EPA Emission Factor	1.9	0	0.0882
NOX	EPA Emission Factor	100	0	4.6417
voc	EPA Emission Factor	5.5	0	0.2553
Group ID: L21		Group Description	:L21 Film Casting Line	
Percent Quarterly	Throughput			
Winter: 25	Spring: 25	Summer: 25	Fall: 25	
Days Per Week: 7	Weeks Per Year: 51	Hours Per Day: 24	Hours Per Year: 8568	
Process ID: L21		Process Description	on: Process	
SCC:	30801003	Stack:	L21	
	Rubber and Miscellaneous Plastics Products	Description:	Line L21 Oven	
	Plastic Products Manufacturing	Stack Type:	Vertical	
	Film Production, Die (Flat/Circular)	Height:	40	
Heat Content:	0	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	11.1559 Tons	Gas Flow:	9599	
Material:	VOCs	Input/Output:	Process Material Produced	(Outut)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Material Balance	0	0	11.1559

### **MonoSol LLC**

Plant ID:1812700131 Report for 2023

Location: 1500 Louis Sullivan Dr, Portage, 46368

Process ID: NG		Process Description	on: Natural Gas	
SCC:	10200602	Stack:	L21	
	Industrial	Description:	Line L21 Oven	
	Natural Gas	Stack Type:	Vertical	
	10-100 Million Btu/hr	Height:	40	
Heat Content:	10.5	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	78.0885 Million Cubic Feet	Gas Flow:	9599	
Material:	Natural Gas	Input/Output:	Process Material Used (Input	t)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0.1249
SO2	EPA Emission Factor	0.6	0	0.0234
со	EPA Emission Factor	84	0	3.2797
PM-CON	EPA Emission Factor	5.7	0	0.2226
PM10-FIL	EPA Emission Factor	1.9	0	0.0742
7439921	EPA Emission Factor	0.0005	0	0.0000
PM25-FIL	EPA Emission Factor	1.9	0	0.0742
NOX	EPA Emission Factor	100	0	3.9044
voc	EPA Emission Factor	5.5	0	0.2147
Group ID: L22		<b>Group Description</b>	:L22 Film Casting Line	
Percent Quarterly	Throughput			
Winter: 25	Spring: 25	Summer: 25	<b>Fall:</b> 25	
Days Per Week: 7	Weeks Per Year: 51	Hours Per Day: 24	Hours Per Year: 8568	
Process ID: L22		Process Description	on: Process	
SCC:	30801003	Stack:	L22	
	Rubber and Miscellaneous Plastics Products	Description:	Line L22 Oven	
	Plastic Products Manufacturing	Stack Type:	Vertical	
	Film Production, Die (Flat/Circular)	Height:	40	
Heat Content:	0	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	11.2744 Tons	Gas Flow:	9599	
Material:	VOCs	Input/Output:	Process Material Produced (	Outut)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Material Balance	0	0	11.2744

### MonoSol LLC

Plant ID:1812700131 Report for 2023

Location: 1500 Louis Sullivan Dr, Portage, 46368

Process ID: L22_N	IG	Process Description	on: Natural Gas	
SCC:	10200602	Stack:	L22	
	Industrial	Description:	Line L22 Oven	
	Natural Gas	Stack Type:	Vertical	
	10-100 Million Btu/hr	Height:	40	
Heat Content:	10.5	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	78.918 Million Cubic Feet	Gas Flow:	9599	
Material:	Natural Gas	Input/Output:	Process Material Used (Input	t)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0.1263
SO2	EPA Emission Factor	0.6	0	0.0237
со	EPA Emission Factor	84	0	3.3146
PM-CON	EPA Emission Factor	5.7	0	0.2249
PM10-FIL	EPA Emission Factor	1.9	0	0.0750
7439921	EPA Emission Factor	0.0005	0	0.0000
PM25-FIL	EPA Emission Factor	1.9	0	0.0750
NOX	EPA Emission Factor	100	0	3.9459
voc	EPA Emission Factor	5.5	0	0.2170
Group ID: L23		<b>Group Description</b>	:L23 Film Casting Line	
Percent Quarterly	Throughput			
Winter: 25	Spring: 25	Summer: 25	<b>Fall:</b> 25	
Days Per Week: 7	Weeks Per Year: 51	Hours Per Day: 24	Hours Per Year: 8568	
Process ID: L23		Process Description	on: Process	
SCC:	30801003	Stack:	L23	
	Rubber and Miscellaneous Plastics Products	Description:	Line L23 Oven	
	Plastic Products Manufacturing	Stack Type:	Vertical	
	Film Production, Die (Flat/Circular)	Height:	40	
Heat Content:	0	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	11.2309 Tons	Gas Flow:	9599	
Material:	VOCs	Input/Output:	Process Material Produced (	Outut)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
voc	Material Balance	0	0	11.2309

### **MonoSol LLC**

Plant ID:1812700131 Report for 2023

Location: 1500 Louis Sullivan Dr, Portage, 46368

Process ID: L23_N	G	Process Description	on: Natural Gas	
SCC:	10200602	Stack:	L23	
	Industrial	Description:	Line L23 Oven	
	Natural Gas	Stack Type:	Vertical	
	10-100 Million Btu/hr	Height:	40	
Heat Content:	10.5	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	78.6135 Million Cubic Feet	Gas Flow:	9599	
Material:	Natural Gas	Input/Output:	Process Material Used (Input	t)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0.1258
SO2	EPA Emission Factor	0.6	0	0.0236
со	EPA Emission Factor	84	0	3.3018
PM-CON	EPA Emission Factor	5.7	0	0.2240
PM10-FIL	EPA Emission Factor	1.9	0	0.0747
7439921	EPA Emission Factor	0.0005	0	0.0000
PM25-FIL	EPA Emission Factor	1.9	0	0.0747
NOX	EPA Emission Factor	100	0	3.9307
voc	EPA Emission Factor	5.5	0	0.2162
Group ID: L24		<b>Group Description</b>	:L24 Film Casting Line	
Percent Quarterly	Γhroughput			
Winter: 25	Spring: 25	Summer: 25	<b>Fall:</b> 25	
Days Per Week: 7	Weeks Per Year: 51	Hours Per Day: 24	Hours Per Year: 8568	
Process ID: L24		Process Description	on: Process	
SCC:	30801003	Stack:	L24	
	Rubber and Miscellaneous Plastics Products	Description:	Line L24 Oven	
	Plastic Products Manufacturing	Stack Type:	Vertical	
	Film Production, Die (Flat/Circular)	Height:	40	
Heat Content:	0	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	11.1394 Tons	Gas Flow:	9599	
Material:	VOCs	Input/Output:	Process Material Produced (	Outut)
Pollutant	<b>Emission Method</b>	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Material Balance	0	0	11.1394

### **MonoSol LLC**

Plant ID:1812700131 Report for 2023

Location: 1500 Louis Sullivan Dr, Portage, 46368

Process ID: L24_N	IG	Process Description	on: Natural Gas	
SCC:	10200602	Stack:	L24	
	Industrial	Description:	Line L24 Oven	
	Natural Gas	Stack Type:	Vertical	
	10-100 Million Btu/hr	Height:	40	
Heat Content:	10.5	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	77.973 Million Cubic Feet	Gas Flow:	9599	
Material:	Natural Gas	Input/Output:	Process Material Used (Input	t)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
NH3	EPA Emission Factor	3.2	0	0.1248
SO2	EPA Emission Factor	0.6	0	0.0234
со	EPA Emission Factor	84	0	3.2749
PM-CON	EPA Emission Factor	5.7	0	0.2222
PM10-FIL	EPA Emission Factor	1.9	0	0.0741
7439921	EPA Emission Factor	0.0005	0	0.0000
PM25-FIL	EPA Emission Factor	1.9	0	0.0741
NOX	EPA Emission Factor	100	0	3.8986
voc	EPA Emission Factor	5.5	0	0.2144
Group ID: L25		<b>Group Description</b>	:L25 Film Casting Line	
Percent Quarterly	Throughput			
Winter: 25	Spring: 25	Summer: 25	<b>Fall:</b> 25	
Days Per Week: 7	Weeks Per Year: 51	Hours Per Day: 24	Hours Per Year: 8568	
Process ID: L25		Process Description	on: Process	
SCC:	30801003	Stack:	L25	
	Rubber and Miscellaneous Plastics Products	Description:	Line L25 Oven	
	Plastic Products Manufacturing	Stack Type:	Vertical	
	Film Production, Die (Flat/Circular)	Height:	40	
Heat Content:	0	Diameter:	2.5	
Sulfur Content:	0	Temperature:	320	
Ash Content:	0	Velocity:	32.59	
Throughput:	9.4144 Tons	Gas Flow:	9599	
Material:	VOCs	Input/Output:	Process Material Produced (	Outut)
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)
VOC	Material Balance	0	0	9.4144

### **MonoSol LLC**

Plant ID:1812700131 Report for 2023

Location: 1500 Louis Sullivan Dr, Portage, 46368

Process ID: L25_NG		Process Description: Natural Gas			
SCC:	10200602	Stack:	L25		
	Industrial	Description:	Line L25 Oven		
	Natural Gas	Stack Type:	Vertical		
	10-100 Million Btu/hr	Height:	40		
Heat Content:	10.5	Diameter:	2.5		
Sulfur Content:	0	Temperature:	320		
Ash Content:	0	Velocity:	32.59		
Throughput:	65.898 Million Cubic Feet	Gas Flow:	9599		
Material:	Natural Gas	Input/Output:	Process Material Used (Input	ıt)	
Pollutant	Emission Method	Emission Factor	Overall Ctrl Efficiency	Emissions(Tons)	
NH3	EPA Emission Factor	3.2	0	0.1054	
SO2	EPA Emission Factor	0.6	0	0.0198	
со	EPA Emission Factor	84	0	2.7677	
PM-CON	EPA Emission Factor	5.7	0	0.1878	
PM10-FIL	EPA Emission Factor	1.9	0	0.0626	
7439921	EPA Emission Factor	0.0005	0	0.0000	
PM25-FIL	EPA Emission Factor	1.9	0	0.0626	
NOX	EPA Emission Factor	100	0	3.2949	
voc	EPA Emission Factor	5.5	0	0.1812	