

2011 Usage	DATE	GP RESIN LAYUP	GP RESIN SPRAY	GELCOAT	VE RESIN	ACETONE	STYRENE
Week beginning	July 1, 2011	2 Drum	9 Drum	1.5 Drum	1.5 Drum	1.75 Drum	7 Gallon
Week ending	July 7, 2011	1.5 Drum	7 Drum	1.25 Drum	1.5 Drum	1 Drum	7 Gallon
Weeks usage		0.5 Drum	2 Drum	0.25 Drum	0 Drum	0.75 Drum	0 Gallon
Week beginning	July 8, 2011	2.5 Drum	9 Drum	2.25 Drum	1.5 Drum	3 Drum	7 Gallon
Week ending	July 14, 2011	2 Drum	7.25 Drum	2 Drum	1.5 Drum	2.5 Drum	7 Gallon
Weeks usage		0.5 Drum	1.75 Drum	0.25 Drum	0 Drum	0.5 Drum	0 Gallon
Week beginning	July 15, 2011	3 Drum	8.25 Drum	2 Drum	1.5 Drum	3.5 Drum	7 Gallon
Week ending	July 21, 2011	2.5 Drum	6 Drum	1.75 Drum	1.5 Drum	2.75 Drum	6 Gallon
Weeks usage		0.5 Drum	2.25 Drum	0.25 Drum	0 Drum	0.75 Drum	1 Gallon
Week beginning	July 22, 2011	2.5 Drum	6 Drum	1.75 Drum	1.5 Drum	2.75 Drum	6 Gallon
Week ending	July 28, 2011	1.5 Drum	3.75 Drum	1.5 Drum	1.5 Drum	2 Drum	5.5 Gallon
Weeks usage		1 Drum	2.25 Drum	0.25 Drum	0 Drum	0.75 Drum	0.5 Gallon
Week beginning							
Week ending							
Weeks usage							
Months Usage in drums/gallons		2.5 Drum	8.25 Drum	1.00 Drum	0 Drum	2.75 Drum	1.5 Gallon
Drum to LB Conversion		495	495	530	495	357	8
Months Usage in LB's		1237.5 Lbs	4083.75 Lbs	530.00 Lbs	0 Lbs	981.75 Lbs	12 Lbs
ASA Manufacturing, Inc.							
Facility ID# 0830104							
Emission Unit ID 0830104001							
07/01/2011-07/28/2011							

VOC Emissions

Jul-11

07/01/2011-07/28/2011

Description	Usage (lbs / mo)	Usage (tons / mo)	Unified Emission Factor **	VOC Emissions (lbs / mo)	VOC Emissions (tons / mo)
GP Resin / Spray	4083.75	2.041875	155	316.491	0.158
Catalyst*	122.5125	N/A	N/A	122.513	0.061
GP Resin / Roll On	1237.5	0.61875	117	72.394	0.036
Catalyst	37.125	N/A	N/A	37.125	0.019
Vinyl Ester / Roll On	0	0	143	0.000	0.000
Catalyst	0	N/A	N/A	0.000	0.000
Gel Coat-Styrene / Spray	530.00	0.265	259	68.635	0.034
Gel coat- MMA	530.00	0.265	105	27.825	0.014
Catalyst	15.9	N/A	N/A	15.900	0.008
Styrene / Cleaning (under Roll On)	12	N/A	N/A	12.000	0.006
Total Emissions for month				672.882	0.336

* Catalyst usage is based on 3% of resin/gelcoat usage. Annual VOC emissions assume all catalyst is volatilized.

** lb styrene or MMA/ton resin or gelcoat

Unified Emission Factors based on:

- GP Resin - 39% Styrene
- VE Resin - 43.5% Styrene
- Gel Coat - 40% Styrene

07/01/2011-07/28/2011

ASA Manufacturing
 Facility ID # 0830104
 Emission Unit ID 0830104001

12 month running VOC Emission totals (tons):	
Month	Running Total
August-10	0.175
September-10	0.218
October-10	0.306
November-10	0.444
December-10	0.288
January-11	0.423
February-11	0.539
March-11	0.796
April-11	0.606
May-11	0.466
June-11	0.386
July-11	0.336

Styrene Emissions

Jul-11

07/01/2011-07/28/2011

Corrected

Description	Usage		Usage (tons / mo)	United Emission Factor **	Styrene Emissions	
	(lbs / mo)				(lbs / mo)	(tons / mo)
GP Resin / Spray	4083.75		2.041875	155	316.491	0.158
GP Resin / Roll On	1237.5		0.61875	117	72.394	0.036
Vinyl Ester / Roll On	0		0	143	0.000	0.000
Gel Coat / Spray	530.00		0.265	259	68.635	0.034
Styrene / Cleaning (under Roll On)	12		N/A	N/A	12.000	0.006
Total Styrene Emissions for month					469.519	0.235

** lb styrene/ton resin or gelcoat

United Emission Factors based on:

- GP Resin - 39% Styrene
- VE Resin - 43.5% Styrene
- Gel Coat - 40% Styrene

07/01/2011-07/28/2011

ASA Manufacturing
 Facility ID # 0830104
 Emission Unit ID 0830104001

12 month running Styrene Emission totals (tons):		
Month	Emissions	Running Total
August-10	0.152	2.30
September-10	0.215	2.16
October-10	0.231	2.05
November-10	0.307	2.23
December-10	0.200	2.33
January-11	0.292	2.45
February-11	0.663	2.91
March-11	0.964	3.63
April-11	0.420	3.84
May-11	0.641	4.40
June-11	0.268	4.48
July-11	0.235	4.59

Styrene Emissions

Jul-11

07/01/2011-07/28/2011

Description	Usage		United Emission Factor **	Styrene Emissions	
	(lbs / mo)	(tons / mo)		(lbs / mo)	(tons / mo)
GP Resin / Spray	4083.75	2.041875	155	316.491	0.158
GP Resin / Roll On	1237.5	0.61875	117	72.394	0.036
Vinyl Ester / Roll On	0	0	143	0.000	0.000
Gel Coat / Spray	530.00	0.265	259	68.635	0.034
Styrene / Cleaning (under Roll On)	12	N/A	N/A	12.000	0.006
Total Styrene Emissions for month				469.519	0.235

** lb styrene/ton resin or gelcoat

United Emission Factors based on:

- GP Resin - 39% Styrene
- VE Resin - 43.5% Styrene
- Gel Coat - 40% Styrene

07/01/2011-07/28/2011

ASA Manufacturing
 Facility ID # 0830104
 Emission Unit ID 0830104001

12 month running Styrene Emission totals (tons):		
Month	Emissions	Running Total
August-10	0.152	2.30
September-10	0.215	2.16
October-10	0.231	2.05
November-10	0.307	2.23
December-10	0.200	2.33
January-11	0.292	2.45
February-11	0.663	2.91
March-11	0.964	3.63
April-11	0.420	3.84
May-11	0.421	4.18
June-11	0.268	4.26
July-11	0.235	4.37

HAP Emissions

Jul-11

07/01/2011-07/28/2011

Description	Usage		Usage (tons / mo)	United Emission Factor **	Other HAP Content*** (% by weight)	HAP Emissions	
	(lbs / mo)	(tons / mo)				(lbs / mo)	(tons / mo)
GP Resin / Spray	4083.75	2.041875		155	0	316.491	0.158
Catalyst*	122.5125	N/A		N/A	1.1	1.348	0.001
GP Resin / Roll On	1237.5	0.61875		117	0	72.394	0.036
Catalyst	37.125	N/A		N/A	1.1	0.408	0.000
Vinyl Ester / Roll On	0	0		143	0	0.000	0.000
Catalyst	0	N/A		N/A	1.1	0.000	0.000
Gel Coat-styrene/Spray	530.00	0.265		259	N/A	68.635	0.034
Gel coat- MMA	530.00	0.265		105	N/A	27.825	0.014
Catalyst	15.9	N/A		N/A	1.1	0.175	0.000
Styrene / Cleaning (under Roll On)	12	N/A		N/A	0	12.000	0.006
Total Emissions for month						499.275	0.250

* Catalyst usage is based on 3% of resin/gelcoat usage.

** lb styrene or MMA/ton resin or gelcoat

*** Includes Methyl ethyl ketone and xylene.

United Emission Factors based on:

GP Resin - 39% Styrene

VE Resin - 43.5% Styrene

Gel Coat - 40% Styrene

07/01/2011-07/28/2011

ASA Manufacturing

Facility ID # 0830104

Emission Unit ID 0830104001

12 month running HAP Emission totals (tons):

Month	Emissions	Running Total
August-10	0.163	2.51
September-10	0.234	2.36
October-10	0.249	2.23
November-10	0.329	2.39
December-10	0.215	2.51
January-11	0.318	2.63
February-11	0.400	2.82
March-11	0.602	3.16
April-11	0.451	3.38
May-11	0.346	3.64
June-11	0.284	3.72
July-11	0.250	3.84