

Inter-Fab Inc.
Air Quality Permit #2905
Potential to Emit Calculation

PTE Considering Synthetic Minor Limitation

Uncontrolled Emissions

Pollutant	Tpy
NOx	< 1 ton
CO	< 1 ton
SOx	< 1 ton
PM-10	< 1 ton
VOC	105.0
HAPs	105.0
Styrene	96.5

Controlled Emissions

Pollutant	Tpy
NOx	< 1 ton
CO	< 1 ton
SOx	< 1 ton
PM-10	< 1 ton
VOC	90.0
HAPs	90.0

Explanation of S.M. Limitation

This synthetic minor limitation will limit HAP containing materials to less than 100 tons per year threshold as accepted by Interfab and required by 40 CFR 63.5805. The limits for resins and gelcoats that are currently in the permit will be changed accordingly. All mechanical spray of resins were calculated using non-atomized spray values.

Calculations:

Uncontrolled PTE based on 8760 hr/yr

Total HAPs: 105.0 tpy
 Styrene: 96.5 tpy
 MMA 8.5 tpy
VOC: 105.0 tpy

S.M. Limitation to reduce total HAPs <10.0 tpy

Current Sources of HAPs:	Relative Percentages (of emissions):
Resins 42.5	40.5%
Gelcoat 54.0	51.4%
MMA 8.5	8.1%

Desired HAP Limitation:	90 tpy
Consequently, the allowable emissions should be the following according to the proportions established above:	
	Relative Percentages (of emissions):
All Resins:	36.4 tpy 40.5%
All Gelcoats:	46.3 tpy 51.4%
MMA:	7.3 tpy 8.1%
Accordingly the Permittee should be limited to the following usages of each of these HAP containing products:	
All Resins:	1892222 lbs 946.1 tpy
All Gelcoats:	361771 lbs 180.9 tpy

All Resins:

@35% Styrene, UEF cites:
 77.0 lb Styrene emitted/ton resin
1892222 lb/yr
946.1 tpy

All Gelcoats:

@43.50 % Styrene, UEF cites:
 511.5 lb Styrene emitted/ton gelcoat
361771 lb/yr **56530 lb/yr gel coat in open moulding**
180.9 tpy