

## Attachment F: Autobody Refinisher Worksheet Utah Division of Air Quality

Business Name \_\_\_\_\_ Date \_\_\_\_\_

The calculations on this worksheet will help to estimate the volatile organic compound (VOC) from a painting operation. If the VOCs do not exceed 5 tons per year, and you meet the other requirements, you are eligible for the Small Source Exemption. After completing this worksheet, enter the emission estimates in **Section IV, Air Emission Information**, of the Small Source Registration Notice. Businesses exceeding the exemption limits that are listed in the Registration Notice, are required to file a permit application, known as a Notice of Intent (NOI) with the Division of Air Quality. If you need assistance filling out this form or information on the NOI, please contact with the Small Business Assistance Program (SBAP) at the Division of Air Quality at 536-4000, if you live in the Salt Lake City area or 1-800-270-4440, toll-free outside of the Salt Lake City area.

### Painting Emissions:

Column A	Column B	Column C	Column D
Paint Name	Volatile Organic Compounds Content in Coating (VOC-lbs/gal)	Gallons Per Year	Pounds Per Year (VOC)
1. Pretreatment Wash Primers and Precoats	6.5		
2. Primer Surfacer	5.25		
3. Primers Sealers	5.1		
4. Solvents	7.5		
5. Topcoats	5.6		
6. Specialty Products	7.5		
7. Other (adhesives, etc.): _____			
8. Other (adhesives, etc.): _____			
Total Emissions in Lbs/yr		Box X:	
Total Emissions in Tons/yr		Box Y:	

The estimating of emissions from a painting operation is a two step process. First you estimate the volatile organic compound (VOC) emission and second the hazardous air

pollutant emissions. The second calculation requires the use the fact sheet **“How to Estimate Your Hazardous Air Pollutant Emissions.”** Typically 30-50% of volatile organic compounds may be hazardous air pollutants, so do not forget to estimate the hazardous air pollutants in the paints, solvents and other chemicals used at the business.

The VOCs can be estimated using the procedure below:

- Step 1 Estimate the total gallons of products (use Column A as a guideline) that you use on an annual basis. This can be estimated by recording what you use in an average month and then multiplying by 12 to convert to annual basis. Enter number in Column C.
- Step 2 Multiply the gallons per year in Column C by the pounds of VOCs per gallon that is given in Column B. Column B contains typical VOC values for these products. You can use these values or correct the value to match the actual products you use for a more accurate estimate of VOC's per year,  $D=B \times C$ . Enter the number in Column D. The VOC content per gallon of coating can be obtained from your Material Safety Data Sheets (MSDS), if the content is not listed in Column B.
- Step 3 Add the numbers in column D and enter total in Box X. Divide by 2,000 to convert pounds to tons.  $Y = X / 2000$ , Enter the number in Box Y.

If the total in Box Y does not exceed 5 tons per year, and you meet the other requirements, you can use the Small Source Registration Notice. If the number exceeds 5 tons per year, you should review the quantities and decide if the numbers are good estimates of the usage at your facility. If the total still exceeds the small source registration quantities, you might consider finding new paints with lower VOC contents. Contact your supplier and ask for substitutes products with lower VOC contents. Note: Compliance inspectors can ask for documentation of all information of on these forms. If after reviewing the numbers the total still exceeds 5 tons per year you will need an air permit. Contact the Small Business Assistance Program for the additional information you will need to submit to receive an air permit.

**Attachment F: Autobody Refinisher Worksheet Utah Division of Air Quality**

Business Name Shiny Auto Body Date 9-22-00

The calculations on this worksheet will help to estimate the volatile organic compound (VOC) from a painting operation. If the VOCs do not exceed 5 tons per year, and you meet the other requirements, you are eligible for the Small Source Exemption. After completing this worksheet, enter the emission estimates in **Section IV, Air Emission Information**, of the Small Source Registration Notice. Businesses exceeding the exemption limits that are listed in the Registration Notice, are required to file a permit application, known as a Notice of Intent (NOI) with the Division of Air Quality. If you need assistance filling out this form or information on the NOI, please contact with the Small Business Assistance Program (SBAP) at the Division of Air Quality at 536-4000, if you live in the Salt Lake City area or 1-800-270-4440, toll-free outside of the Salt Lake City area.

**Painting Emissions:**

Column A	Column B	Column C	Column D
Paint Name	Volatile Organic Compounds Content in Coating (VOC-lbs/gal)	Gallons Per Year	Pounds Per Year (VOC)
1. Pretreatment Wash Primers and Precoats	6.5	450	2,925
2. Primer Surfacer	5.25	50	262
3. Primers Sealers	5.1 4.0	50	200
4. Solvents	7.5	400	3,000
5. Topcoats	5.6		
6. Specialty Products	7.5		
7. Other (adhesives, etc.): <u>Thinners</u>	6.5	10	65
8. Other (adhesives, etc): _____			
<b>Total Emissions in Lbs/yr</b>		<b>Box X:</b>	<b>6,452</b>
<b>Total Emissions in Tons/yr</b>		<b>Box Y:</b>	<b>3.2</b>

The estimating of emissions from a painting operation is a two step process. First you estimate the volatile organic compound (VOC) emission and second the hazardous air

pollutant emissions. The second calculation requires the use the fact sheet “**How to Estimate Your Hazardous Air Pollutant Emissions.**” Typically 30-50% of volatile organic compounds are often hazardous air pollutants, so do not forget to estimate the hazardous air pollutants in the paints, solvents and other chemicals used at the business.

The VOCs can be estimated using the procedure below:

- Step 1 Estimate the total gallons of products (use Column A as a guideline) that you use on an annual basis. This can be estimated by recording what you use in an average month and then multiplying by 12 to convert to annual basis. Enter number in Column C.
- Step 2 Multiply the gallons per year in Column C by the pounds of VOCs per gallon that is given in Column B. Column B contains typical VOC values for these products. You can use these values of correct the value to match the actual products you use for a more accurate estimate of VOC's per year,  $D=B \times C$ . Enter the number in Column D. The VOC content per gallon of coating can be obtained from your Material Safety Data Sheets (MSDS), if the content is not listed in Column B.
- Step 3 Add the numbers in column D and enter total in Box X. Divide by 2,000 to convert pounds to tons.  $Y = X / 2000$ , Enter the number in Box Y.

If the total in Box Y does not exceed 5 tons per year, and you meet the other requirements, you can use the Small Source Registration Notice. If the number exceeds 5 tons per year, you should review the quantities and decide if the numbers are good estimates of the usage at your facility. If the total still exceeds the small source registration quantities, you might consider finding new paints with lower VOC contents. Contact your supplier and ask for substitutes products with lower VOC contents. Note: Compliance inspectors can ask for documentation of all information of on these forms. If after reviewing the numbers the total still exceeds 5 tons per year you will need an air permit. Contact the Small Business Assistance Program for the additional information you will need to submit to receive an air permit.