

Source ID/Registration Number (not applicable for new sources):

4701 W. Russell Rd Suite 200 Las Vegas, NV 89118-2231 Phone (702) 455-5942 Fax (702) 383-9994

For DAQ Use Only	For	DAQ	Use	Only
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**Reporting Year:** 

## AQR 101: INDUSTRIAL ADHESIVE OPERATIONS ANNUAL EMISISONS INVENTORY REPORTING FORM

**Important:** Annual Emissions Reporting is  $\underline{NOT}$  required for your source if the use of volatile organic compound (VOC) containing industrial adhesive materials was less than 500 gallons (1,892 L) in the reporting year.

Company name:			
Source (facility) name:			
Source (facility) address:			
City, State, ZIP:			
Mailing address (if different from source address):			
To calculate VOC emissions, complete the form be for assistance, contact our Small Business Assistance (S		1 0	of this form or
VOC Material/Product Used	Annual Usage (gallons)	VOC Content (lbs/gallon)	Actual VOC Emissions (tons/year)
VOC Emissions (in to	ons/year) from addit	ional sheets, if any:	
Facility Total - A	Actual VOC Emiss	sions (in tons/year):	
<sup>1</sup> See instructions page or <i>AQR 101.7</i> for additional information on calculating the VOC content of low-solids materials.	excluding water and exe	empt compounds from a	dhesive materials and
Emissions Control System (ECS): If you are using enter the control efficiency below. For more information or the <i>Fact Sheet</i> .			
ECS control efficiency: %			
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I certify that, based on information and bel document is true, accurate and complete.	ief formed after reasonable inquiry, the inf	Formation contained in this
Owner, Operator, or Responsible Official O	Certification (original signature)	Date
Printed Name and Title		
Office Phone #:	Cellphone #:	
Email Address:		

**Instructions:** Please complete this form electronically to the best of your ability. Submit the completed report with the Owner's, Operator's, or Responsible Official's original (wet) signature to the Division of Air Quality by mail or in person at the address listed above.

## Directions for completing the form manually:

- Actual VOC emissions are calculated based on the annual usage and the VOC content of the individual products summed for the entire source for the reporting year.
- To calculate actual VOCs from each product or material usage:
  - Start with the maximum amount of VOC-containing material (in gallons) used during a calendar year. Multiply this gallon value by the VOC emission factor (lb/gal) provided in the Safety Data Sheets (SDS) or from other records for the material and divide the result by 2000; this is the VOC emissions emitted in tons/year for the material. Do this for each material used in the calendar year. Add the emissions from each material to get the total source' calendar year emissions. You may also attach a computer-generated log of actual product consumption and VOC emissions.

\_\_\_\_ gallons/year × \_\_\_\_ pounds/gallon = \_\_\_ pounds ÷ 2000 = \_\_\_ tons/year of VOCs emitted

• For adhesives or adhesive primers that do not contain reactive diluents, calculate the VOC content in weight of VOC per volume of adhesive or adhesive primer, excluding water and exempt compounds, using the following equation:

Eq. 1: 
$$Adhesive_{voc} = \frac{(Ws - Ww - Wes)}{(Vm - Vw - Ves)}$$

where:

Adhesive $_{voc}$  = VOC content per volume of adhesive or adhesive primer (g/L or lb/gal)

Ws = weight of volatile compounds, including water and exempt compounds

Ww = weight of water

Wes = weight of exempt compounds

Vm = volume of material, including water and exempt compounds

Vw = volume of water

Ves = volume of exempt compounds.

• For adhesives or adhesive primers that contain reactive diluents, calculate the VOC content in weight of VOC per volume of adhesive or adhesive primer, excluding water and exempt compounds, using the following equation:

Eq. 2: 
$$Adhesive_{voc} = \frac{(Wrs - Wrw - Wres)}{(Vrm - Vrw - Vre)}$$

where:

Adhesivevoc = VOC content per volume of adhesive or adhesive primer (g/L or lb/gal)

Wrs = weight of volatile compounds not consumed during curing

Wrw = weight of water not consumed during curing

Wre = weight of exempt compounds not consumed during curing

Vrm = volume of material not consumed during curing

Vrw = volume of water not consumed during curing

Vre = volume of exempt compounds not consumed during curing.

• Calculate grams of VOC per liter or pounds of VOC per gallon of low-solids material using the following equation:

Weight per volume of materials =  $\frac{Ws-Ww-We}{Vm}$ 

## Eq. 3: where:

Ws = weight of volatile compounds

Ww = weight of water

We = weight of exempt compounds

Vm = volume of material.

For more information on this regulation refer to Section 102 and/or the Fact Sheet.

Also, if you have any questions or need clarification on completing this form, please contact the Air Quality Small Business Assistance Program at (702) 455-1660 or by email at AQSBAP@ClarkCountyNV.gov.