

Calculating Emissions

from Your Petroleum-Base Dry Cleaner



Formula for Calculating Your Emissions:

Amount of solvent used (gallons/month and gallons/yr) x VOC content of the solvent (% by Wt. or lbs/gallon)= VOM emissions

gallons/year x lbs/gallon = lbs/year of emissions*

Tons/year of Emissions = lbs/year of emissions ÷ 2000 lbs

*this assumes 100% VOM emitted into Air, if not 100 % you would need subtract amount of used solvent shipped out to the recycler or for disposal multiplied by the VOM content for the used solvent.to get the actual VOM emissions

DF 2000 Example:

1000 gal/yr x 6.401 lbs/gal = 6401 lbs/year

6401 lbs/year ÷ 2000 lbs = 3.2 tons/year VOM Emissions

How to Find Important Information for Calculating Your Emissions

Annual Solvent Usage

To calculate your emissions, you will need to know how many gallons of solvent you used in the past twelve months. Solvent Usage would include the following:

- Solvent Available Month 1
- + Solvent Purchases Month 1-12
- Spent Solvent sent to a recycler/
waste hauler
- Solvent on hand Month 12
- = Annual Solvent Usage

How to Find the lbs/gallon if your MSDS/SDS does not provide it.

If your MSDS/SDS does not provide the VOC lbs/gal of the solvent or lbs/gal, you would need the density and if not available the specific gravity or relative density that is listed in the products MSDS/SDS Sheet and multiply it by the weight of water (8.34 lbs/gallon) to find the products lbs/gallon.

Formula: (Weight of Water = 8.34 lbs)

Density or Specific Gravity or Relative Density x weight of water = lbs/gal

From MSDS or SDS Sheets:

Product	<u>Density-Specific Gravity/Relative Density</u>	VOC lbs/gallon	Calculated lbs/gal
DF-2000		6.401 lbs/gal	
EcoSolv/EcoGreen	.76		6.34 lbs/gal
Gen X	.83		6.92 lbs/gal

EcoSolv/EcoGreen

.76 x 8.34 lbs/gal = 6.34 lbs/gal

Gen X

.83 x 8.34 lbs/gal= 6.92 lbs/gal

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This publication is intended as general guidance only and is not a substitute for applicable rules. The owner/operator of an emission source should read the rules to determine all applicable requirements. Sept 2019

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6.401 lbs/gal (provided)