



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 AIR POLLUTION CONTROL PROGRAM  
**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ**  
**FORM 2.4 VOLATILE ORGANIC LIQUID LOADING WORKSHEET**

Note: This form is used to calculate emissions from loading organic liquids into tank trucks, rail tank cars and barges.

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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**1. LOADING INFORMATION**

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
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ANNUAL THROUGHPUT OF LIQUID (1,000 GALLONS)	CONTROL DEVICE TYPE	CONTROL EFFICIENCY (%)
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TYPE OF LOADING (CHECK ONE)

Splash loading                     
  Submerged loading                     
  Bottom loading  
 Other (specify):

**2. CHEMICAL INFORMATION**

BULK LIQUID TYPE	MOLECULAR WEIGHT OF MATERIAL LOADED [LB. / (LB./MOLE)]
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TRUE VAPOR PRESSURE OF BULK LIQUID (PSIA)	SATURATION FACTOR
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TEMPERATURE OF LIQUID (DEGREES RANKINE) = DEGREES FAHRENHEIT + 460 DEGREES FAHRENHEIT

**3. LOADING LOSS EMISSION FACTOR CALCULATION**

**LOADING LOSS EMISSION FACTOR =**

$$12.46 \times (\text{Molecular Weight}) \times (\text{True vapor pressure}) \times (\text{Saturation}) / (\text{Temperature in Degrees Rankine})$$

LOADING LOSS EMISSION FACTOR	UNITS
	lbs. per 1,000 gallons

**NOTE**

Enter the Control Efficiency (%) from Section 1 (above) into Section 5, Column 4 on Form 2.0.  
 Enter the Annual Throughput of Liquid from Section 1, expressed in thousands of gallons, into Section 3 on Form 2.0.  
 Enter the Loading Loss Emission Factor from Section 3 into the VOC box of Section 5, Column 2 on Form 2.0

Remember when calculating emissions, use a separate Form 2.0, *Emission Unit Information*, for each type of liquid loaded in the tank during the year.

Use the same unit number but with the Source Classification Code that corresponds to the different liquid type.