D02 – PORTABLE DEGREASING, UNCONTROLLED CALCULATION METHODS

CALCULATION METHODS

Annual Emissions: Ea = (Ua - Wa) [lbs/year] x D [lbs/gal] x Ci [lbs/lb] x (1 - e) [%]
Hourly Emissions: Eh = Ea / H [hours/year]

Notes:
* Safety Kleen emission factors based on a 1996 District study.
* Assume no reaction, conversion, or breakdown of the degreasing solvent during use.
* The average daily emission rates developed by the District should be used only when representative solvent throughput records are unavailable.
* All similar portable degreasing units using the same solvent should be reported as a single material unless emissions are being calculated according to mass balance procedures.
* Emission calculations are uncontrolled. Capture and removal efficiencies must be identified for controlled processes.
* This procedure assumes 8760 hours/year (365 days/year x 24 hours/day) of operation with the lid open.
* For variable definitions and more details, please check: (https://www.sdapcd.org/content/sdapcd/permits/toxics-emissions/calculation-procedures.html)

POLLUTANT	DISTRICT EMISSION FACTORS (Weight Percent)	REFERENCE DOCUMENT	AP 42-FACTOR	(UNITS)	COMMENTS
NOX					
CO					
SOX					
TOG	100.00				Based on a 1996 District study
ROG	99.35				Based on a 1996 District study
TSP					
PM10					
DICHLOROBENZENES (MIXED ISOMERS)	0.20				Based on a 1996 District study
ETHYL BENZENE	0.50				Based on a 1996 District study
GLYCOL ETHERS, UNSPECIFIED	1.00				Based on a 1996 District study
METHYLENE CHLORIDE	0.15				Based on a 1996 District study
NAPHTHALENE	3.00				Based on a 1996 District study
PERCHLOROETHYLENE	0.25				Based on a 1996 District study
TOLUENE	0.25				Based on a 1996 District study

POLLUTANT	DISTRICT EMISSION FACTORS (ppmw)	REFERENCE DOCUMENT	AP42-FACTOR	(UNITS)	COMMENTS
1,1,1-TRICHLOROETHANE	0.25				Based on a 1996 District study
XYLENES	1.00				Based on a 1996 District study

Last Updated on 02/09/2023 By B. Wong