

San Diego APCD
Emissions Inventory Request Form Instructions

PAINTING AND SURFACE COATING OPERATIONS

Please refer to the general instructions for guidance regarding the following sections: Reporting Year, Facility Identification, Permit Information, Device Information, Stack / Ducted Emissions and Fugitive Release Emissions.

MATERIAL/ PROCESS INFORMATION

Fill in all the data fields. Complete all blanks using the specified units. Report each material used for each device.

Complete a separate material for each material used during the reporting year and attached a copy of the current SDS/EDS information.

If reporting a mixed material usage, provide the EDS for the mix or MSDS combined with TDS/PDS mix ratio information.

CALCULATION METHOD SELECTION

F01-P01-Aerospace Coatings-Rule 67.9
F01-P02-Architectural Coatings-Rule 67.0
F01-P03-Marine Coatings-Rule 67.18
F01-P04-Metal Container and Coil Coatings-Rule 67.4
F01-P05-Metal Parts and Products Coatings-Rule 67.3
F01-P06-Motor Vehicle and Mobile Equipment-Rule 67.20
F01-P07-Paper, Film and Fabric Coatings-Rule 67.5
F01-P08-Wood Product Coatings-Rule 67.11
F01-P09-Other Miscellaneous Coating Operation
F01-P11-Auto Body Shop Generic Coating Operation

Material Name: Provide the name and material specification, consistent with supportive documentation provided (SDS/EDS/PDS, etc).

Annual Material Usage: Report on the total amount of material used or combined materials used (gal/year).

Waste Shipped Off Site: If the amount of material reported under "Annual Material Usage" has already been adjusted to reflect liquid waste shipped off-site, then report zero here. If the gross material usage was reported, then report waste amounts here. In cases where 100% Waste Shipped Off-Site is reported, the District will accept a maximum of 90%, unless provided with supporting documentation. Report only LIQUID waste. Do not include paint skins, still bottoms or rags as waste. Waste manifests may be requested by the District later. The District will subtract the waste amount reported from the Annual Material Usage to calculate the net material usage. Do not aggregate waste shipped off-site, as calculations are completed at the material level.

Maximum Hourly Usage (gal/hr): Report the maximum gallons of coating used in an hour.

Density and VOC Content (lbs/gal): Provide the density and VOC for each material from SDS/EDS information.

Percent solids (%): Provide percent solids (% wt solids) for each material from SDS/EDS information.

Application Method: Identify the application method used for each material (e.g., conventional spray, airless spray, HVLP, brush, roller, dip, or electrostatic spray, etc.).

Transfer Efficiency and Fallout Percent (%): The District will use appropriate default values based on the application method reported. These default values can be found in the tables attached to this document.

Type of Operation: Identify the type of operation (e.g., aerospace, marine coating, metal parts & products, wood coating, paper, fabric, film, motor vehicle, can or coil, plastics, etc.).

Type of Material: Identify the material type (e.g., primer, enamel, epoxy, sealant, adhesive, lacquer, stain,

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varnish, topcoat, maskant, thinner, clean-up solvent, etc.).

Water-based Coating: Answer “yes” if water is the primary solvent, thinner or diluent.

Device Operating Schedule:

Daily Operation (hours/day): Report the average amount of hours the device operates in a typical day.

Weekly Operation (days/week): Report the average number of days the device operates in a typical week.

Annual Operation (days/year): Report the number of days the device operated during the Reporting Year.

POLLUTANT NAME (weight percent)

Material composition information is required to calculate toxic air contaminant emissions. Please provide SDS/EDS documentation for each reported material. Please provide the weight percent of each pollutant from each material’s respective SDS/EDS. If reporting usage for a mixed material, provide the weight percent of each pollutant in the material mix from the mix’s EDS, or provide the weight percent of each pollutant from the mix using TDS/PDS mix ratio (e.g., Part A, Part B, etc.) in combination with the SDS data from each part of the material. If reporting coatings with regulated metal compounds (e.g., Strontium Chromate, etc.) provide the weight percent of the metal compound (e.g., Cr6+, etc.). Input emission factors into EIS for submission either through direct entry through the ‘Enter Emissions Inventory Data’ module or through upload of an EIQ spreadsheet. Pollutants’ names reported in the Excel EIQ spreadsheet must be consistent with EIS pollutant naming convention, otherwise the pollutant data reported may not import correctly.

CAPTURE AND CONTROL EFFICIENCIES:

The District will use appropriate default values for capture efficiency and control equipment efficiency based on the type of capture and control equipment used and reported. Use of typical default values must be accompanied by District Permit to Operate citing the use of capture and control equipment or documentation providing that demonstrates that capture and control equipment were in use for the entire inventory data year. These default values can be found in the tables attached to this document.

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TYPICAL DEFAULT VALUES: Use the following transfer, fallout, capture, and control equipment efficiencies as guidance to determine device-specific operating parameters.

APPLICATION METHOD	FALLOUT AND TRANSFER EFFICIENCIES					
	LARGE SURFACES		MEDIUM SURFACES		SMALL SURFACES	
	Fallout	Transfer	Fallout	Transfer	Fallout	Transfer
Conventional	50%	50%	65%	30%	70%	20%
Airless	50%	70%	65%	50%	70%	30%
HVLP	50%	75%	65%	60%	70%	40%
Electrostatic						
Air Atomized	70%	75%	80%	65%	80%	65%
Airless	70%	80%	80%	70%	80%	70%
Disc	70%	95%	80%	90%	80%	90%
Brush, Roller & Dip	0%	100%	0%	100%	0%	100%

CAPTURE AND CONTROL EQUIPMENT DESCRIPTION	CAPTURE EFFICIENCY	CONTROL EFFICIENCY	
		Solvents (Volatile)	Solids (Non-Volatile)
None	0%	0%	0%
Open Booth & Water Curtain	75%	0%	80%
Open Booth & Fabric Filter	75%	0%	90%
Enclosed Booth & Water Curtain	100%	0%	80%
Enclosed Booth & Fabric Filter	100%	0%	90%
Enclosed Booth Filter & Catalytic Oxidizer	100%	95%	90%
Enclosed Booth & Carbon Adsorption	100%	95%	99%
Full Shrouding		95%	
Full Shrouding & Ventilation to Control Device		98%	