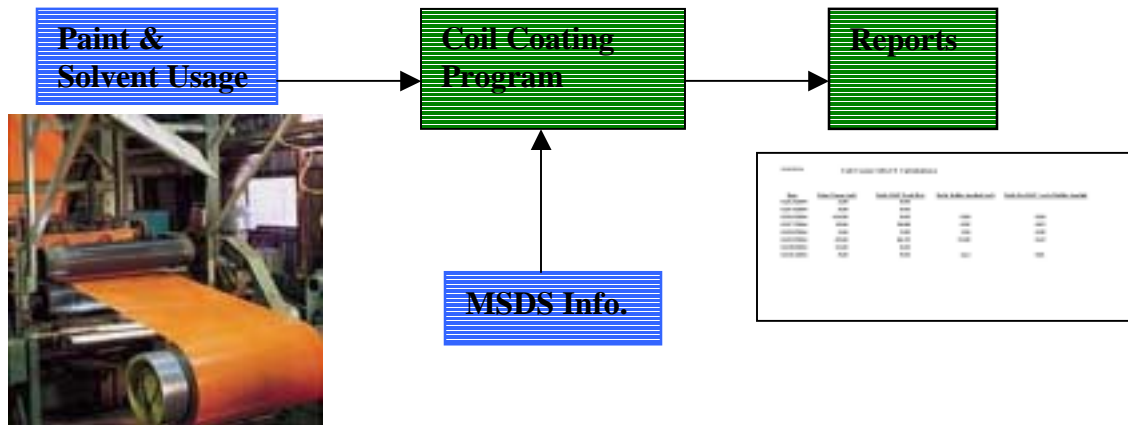


# COIL COATING SOFTWARE

U.S. EPA air emission standards for metal coil coating were promulgated on June 10, 2002. Your facility is required to keep records of all information necessary to document compliance with the rule.

To achieve environmental compliance for a coil coating industry requires collecting usage data for coatings and thinners. This information is used to calculate the organic HAP content of each coating material used during each 12-month compliance period.

In order to simplify the regulatory data gathering, recordkeeping and reporting requirements, HighPoint Software Services, Inc. (HPSS) has developed a software program that will meet these needs.



The Windows-based coil coating program easily tracks coating and thinner usage and prints the required regulatory reports, as described below.

## Usage Data Entry

The entry of usage data into the program only requires entering the date of paint/solvent usage, the name of the material used and the amount. This information can easily be entered into the Windows program or via a stand-alone Excel spreadsheet. The program was designed to be user friendly to allow line operators in the facility to enter the information. Otherwise, environmental personnel can enter the data.

The entry of usage information with the stand-alone Excel spreadsheet is very simple to populate.

3	Log for Materials Input into the Paint Line		
4			
5			
6			
7	Date	Material Used	Usage (gallons)
8	09/12/2004	E1354A	25
9	09/13/2004	E3598C	63
10	09/13/2004	ISOPHORONE	15
11			
12			
13			
14			

Excel data entry screen for paint and solvent usage.

Then, the data in the Excel spreadsheet is imported directly into the Windows program. During the import process, the paint and solvent usage information is added to the Windows program. The associated MSDS data is also used to lookup the parameters required for HAP and VOC emission calculations.

The Windows usage screen contains the three values entered from the paint line as well as HAP, VOC and solids information.



Windows screen for paint /solvent usage. Notice the VOC and HAP information that is automatically calculated when the usage data is entered or imported.

## MSDS Lookup Information

For a paint or solvent, information from the MSDS sheet is used to calculate the HAP and VOC emission information. The MSDS information from the various vendors supplying paints and solvents are entered into the coil coating system.



**MSDS physical property information for paints or solvents used in the coating process.**



Constituents							
Name	CAS Number	Weight %	Volume %	HAP	SAPA	Organic	Solvent
AROMATIC HYDROCARBON	64742-94-5	18.28	24.69			Yes	Yes
2-BUTOXY ETHANOL	111-75-2	7.28	9.74			Yes	Yes
N-BUTYL ALCOHOL	71-36-3	6.03	8.95		Yes	Yes	Yes
DIMETHYL GLUTARATE	1119-40-0	4.8	5.32			Yes	Yes
KETONES_C11	71908-49-6	2.91	4.16			Yes	Yes
DIMETHYL ADIPATE	627-89-0	1.23	1.35			Yes	Yes
DIMETHYL SUCCINATE	106-65-0	1.19	1.32			Yes	Yes
XYLENES	1330-20-7	0.72	1	Yes	Yes	Yes	Yes
DIACETONE ALCOHOL	123-43-2	0.68	0.87			Yes	Yes
TOLUENE	108-88-3	0.48	0.68	Yes	Yes	Yes	Yes
NAPHTHA	64742-49-9	0.2	0.32			Yes	Yes
ISOPROPYL ALCOHOL	67-63-0	0.14	0.21			Yes	Yes
ETHYL BENZENE	100-41-4	0.13	0.18	Yes	Yes	Yes	Yes

**Constituent composition information is entered for the organic solvents.**

Physical Data		Solvent Composition		Regulatory Information			
Constituents							
Name	DAS Number	Lbs.	Lb/Gal	HAP	SARA	Organic	Solvent
GLYCOL ETHERS	*****	7724.1	0.73214	Yes	Yes	Yes	
ETHYL BENZENE	100-41-4	127.84	0.01307	Yes	Yes	Yes	Yes
TOLUENE	108-88-3	508.93	0.04824	Yes	Yes	Yes	Yes
XYLENES	1330-20-7	763.4	0.07236	Yes	Yes	Yes	Yes
BUTYL ACRYLATE	141-32-2	265.07	0.02513		Yes		
N-BUTYL ALCOHOL	71-36-3	6393.46	0.80902		Yes	Yes	Yes

Base (gal): 10550

Buttons: New Constituent, Remove Constituent, Edit Chemical

**Regulatory information is entered for HAP and SARA constituents.**

## Reports

The paint and solvent usage data are used to generate the required reports for internal reporting needs, state and federal regulatory requirements.

Coil Coating Tracking System - [Paint Line Usage - [FF-2406-R DARK BRONZE 4]]

Paint Line Usage - [FF-2406-R DARK BRONZE 4]

### Paint Line Reports

Start Date: 01/01/2004

Stop Date: 09/27/2004

- Monthly Log of Material Input into the Paintline
- Monthly Log for VOC and HAP Emissions
- Lesser Emissions Reduction Calculations
- Coil Coater MACT
- Coil Coater MACT 12 Month Rolling

Buttons: Ok, Cancel

Taskbar: C:\COIL COATING\SYSTEM>TitleV-MACT.mdb | per Nam |urity Le | Record 1 Of 564 | 9/27/2004 | 4:12 PM

The reports module allows the user to select the time period of the report and the type of report to print.

9/27/2004 **Coil Coater MACT Calculations**

<u>Date</u>	<u>Paint &amp; Solvent Usage (gal)</u>	<u>Daily HAP Used (lbs)</u>	<u>Daily Solids Applied (gal)</u>	<u>Daily lbs HAP / gal of Solids Applied</u>
1/12/2005	35.00	63.05	14.76	0.51
2/11/2005	120.00	94.26	54.36	0.21
3/8/2005	29.00	31.27	12.89	0.29
4/13/2005	86.00	7.02	43.58	0.02
5/26/2005	136.00	113.81	54.88	0.25
6/13/2005	36.00	33.59	15.33	0.26
7/19/2005	53.00	36.80	24.53	0.18
8/31/2005	46.00	39.92	18.63	0.26
9/19/2005	67.00	120.70	28.25	0.51

9/27/2004 **Coil Coater MACT Calculations**

<u>Date</u>	<u>Average Monthly lbs HAP / gal of Solids Applied</u>	<u>Rolling 12 Month Average Monthly lbs HAP / gal of Solids Applied</u>
08/2005	0.0082955	0.01 (11)
09/2005	0.0256520	0.01
10/2005	0.0058069	0.01
11/2005	0.0314680	0.01
12/2005	0.0080284	0.01

12-month rolling average determined monthly.



## Coil Coating Software

The coil coating program is an easy to use Windows program to meet the recordkeeping and reporting requirements for coil coating MACT or Title V.

HighPoint Software Services, Inc. (HPSS) will provide you with the coil coating program and user training. HPSS can also provide data entry services to initially load the MSDS information on the coatings used. This preloading of the MSDS data will allow users to immediately start using the system without requiring additional entry of lookup information.

For more information on coil coating software, please contact HighPoint Software Services, Inc.

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