

Corporate and regulatory reporting often require a multi-media approach to release reporting. For example, the US EPA Form R and Canadian NPRI submittals necessitate the tracking and reporting of air, water and waste data, and US EPA Tier II submittal requires the preparation of onsite chemical inventory reports. Managing all of the disparate data associated with the preparation of these reports is difficult and time-consuming.

opsInventory helps you streamline the data collection and report preparation associated with these programs. The system performs threshold analysis to identify the materials that need to be reported under SARA 313 for manufactured, processed and otherwise used categories. It provides detailed release information in support of the actual Form R report and automatically generates the report in the appropriate ready-for-submittal format, either in electronic copy or hard copy.

Measurable Benefits

- ▶ **Integrate Your Data:** opsInventory aggregates air, water and waste release information stored in other modules of opsEnvironmental or contained within the inventory module.
- ▶ **Enable Enterprise-wide Benchmarking:** Facilities can be grouped allowing rollup up of toxic inventory according to user defined requirements permitting benchmarking of like facilities and increasing the value of information.
- ▶ **Reduce Reporting Time:** The software lets you dramatically reduce the amount of time needed for preparing your US Form R and Canadian NPRI reports.
- ▶ **Increase Standardization:** opsInventory provides standard libraries of equations and calculation methods to support industry requirements while allowing all expressions to be modified by users.

Key Features

- **Rollup Reporting:** Summarize Multi-media trends across single and multiple facilities.
- **Mass Balance:** Compute a simple mass balance around each unit or combustion waste stream.
- **Emissions Calculations:** Calculate toxic chemical emissions from combustion using data from EPA or other sources.
- **Combustion Process:** Easily represent various boiler configurations given air emission factors and ppmw data. Will accept your analyses or data from external sources.
- **Otherwise Used:** Track “otherwise used” chemicals with a variety of flexible means for entering, importing or accessing existing usage data.
- **Process Representation:** Represent the processes used in a plant, their interrelationships and the mixtures used at each stage.
- **Threshold Analysis:** Calculate thresholds for manufactured, processed or otherwise used mixtures.
- **Historical Versioning:** Store historical data, methods, mixtures and processes so that anything can be reproduced.

“The SARA 312 report formerly was a very labor intensive task. opsEnvironmental allowed us to cut time needed to generate this report by more than 60%. This year we submitted over 300 hard copy pages, all of which were generated by opsEnvironmental.”

-- Gary Hart, Shell Chemicals

Solving Real Environmental Management Challenges

Challenge: Boilers at your facilities “manufacture” toxic chemicals that must be reported under SARA 313. Each boiler uses multiple fuel types with each type having multiple sources of fuel.

Solution: opsInventory allows multiple fuel types to be associated with the same piece of equipment. For example, your boiler may use natural gas, coal (multiple types), and fuel oil. opsInventory allows unique expressions to be used to calculate toxic emissions based on the type and quantity of actual fuel used. Additionally, opsInventory establishes effective dates for emission factors and applies the correct emission factor for the specified time interval. The end result is the applicable emission factor is applied to the type of fuel used in the specific boiler in which it was consumed. This capability ensures the accuracy of your reporting.

Flexible Reporting

The data stored in opsInventory can be reviewed with standard reports, user-generated reports, or through the software’s powerful ad-hoc reporter.

Examples include:

- ▶ **Threshold Worksheets:** Used to determine what chemicals should be reported on Form R and from which products or fuels they are derived.
- ▶ **Mass Balance Report:** Shows the consistency of toxic chemical release data from fuel consumption processes balancing inputs and outputs.
- ▶ **Form R Toxic Summary:** Extracts static information about the facility, location and toxics.
- ▶ **End-Point Analysis Report:** Summarizes, by toxic, the sources of contribution to air, waste and water releases.
- ▶ **Aggregation Report:** Reports the amount of release by facility and media for each toxic flagged as a Form R or Form A chemical in the Toxic Summary Report. Rolls up data by facility and then for all facilities.
- ▶ **US Form R and Form A Reports:** Generates reports in the format accepted by the US EPA.

- ▶ **Spillage Report:** Summarizes releases of toxics by facility and then by process grouping.

To learn more about how opsEnvironmental can help reduce risk and improve environmental management at your facility or enterprise or to speak to a systems consultant, please contact us.

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MID	Version	Material Name	Actual Weight%	Actual Mole%
274	1	Methyl isoamyl ketone	22.7968	14.6252
275	1	n-Butyl acetate	5.5472	1.289
109	1	Xylene	2.6160	5.6123
276	1	Titanium dioxide	4.3840	9.3425
277	1	Silica Crystalline Quartz	21.9200	18.4329
278	1	Naphtha	4.3840	6.0123
279	1	Chrome III	.4384	1.4767
280	1	Hexamethylene diisocyanate	4.1210	7.9586
0	0	UNKNOWN	30.7414	5.3241
101	1	Toluene	1.2936	11.3692
74	1	Methyl ethyl ketone	3.7576	8.3542

The software allows users to view all of the speciated constituents in a multi-part mixture, showing weight percentage and mole percentage of the materials.

