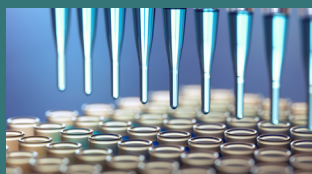


# Chemical Inventory Management

TRACKS HAZARDOUS MATERIALS • CENTRALIZES MATERIALS DATA •  
SUPPORTS ENTERPRISE-WIDE BEST PRACTICES



An accurate chemical inventory is vital to running an effective, integrated hazardous materials program.

**Essential Chemical Inventory™** makes it easy to track chemical inventory information for use in satisfying inventory-related regulatory requirements. And by creating a central data repository, Essential Chemical Inventory lets you share material information with the other Sphera Essential® modules — to reduce the time and costs of ensuring regulatory compliance enterprise-wide.

## Track Locations and Amounts of Materials On-site

With **Essential Chemical Inventory™**, you'll know the amounts and locations of the materials you have on hand at any given time. Information from the centralized materials database lets you track both pure chemicals and mixtures with ease, maintain environmental compliance, generate accurate SARA reports and improve purchasing efficiency and production scheduling. These robust tracking and reporting capabilities also enable substance volume tracking (SVT) as per REACH guidelines.

The system gives you the flexibility to track and calculate inventory by transaction, estimate, or both, allowing you to determine the level of detail you need for managing material inventory and generating regulatory reports.

## Benefits

- Easy-to-use browser-based forms make data entry from around the enterprise simple and efficient.
- Quickly and accurately generates SARA Title III Emergency Planning and Community Right-to-Know-Act (EPCRA) reports reports.

## Leverages and Complements Existing ERP Systems

By exchanging information with your existing purchasing systems and other ERP applications, Essential Chemical Inventory helps your environmental program contribute to lower costs and improved efficiency throughout the enterprise. Data entry time and expense are minimized, duplicate data entry is avoided and maintenance of separate databases is eliminated.

## Easily Tracks Both Pure Chemicals and Mixtures

You can configure the Essential Chemical Inventory material database with your own data or electronically upload data from a commercial or existing database source. This centralized database provides information concerning material properties, compositions, synonyms, physical states, physical properties, hazard categories, regulatory lists and exposure limits.

## Generates SARA Title III Reports

Essential Chemical Inventory uses the material information and inventory data to generate SARA 311 and SARA 312 Tier II regulatory reports, as well as the SARA 313 threshold determination. It accurately handles all of the complex calculations demanded by these reports while minimizing your investment of time and resources.

**Material**

Material Name: 1,1,1-Trichloroethane  
CAS Number: 71-55-6  
EC Number:   
☐ Trade Secret  
☐ Process Stream  
☐ Metal(compound)  
☐ Waste Profile  
☐ Industrial Hygiene Stressor  
☐ Chemical Category  
Type of Material: ☒ Pure ☐ Mixture  
Component Basis: ☒ Solid ☐ Liquid ☐ Vapor

Response Factor:  Add Language Dependent Material Name

Synonyms | Material Composition and Properties | **Regulatory Information** | Families | Groups | Formula Information

Effective Date: 1/1/1990 [New Effective Date](#)

Hazards

GHS Hazard Classes (Tier II reporting)

[Add GHS Hazard](#)

GHS Hazard	GHS Hazard Type
Corrosive to metal	Physical Hazard

Lists Assigned to the Material

[Define Lists](#)

Material	CAS Number	List	Gov. Body	RQ Calc.	RQ
1,1,1-Trichloroethane	71-55-6	EPCRA Section 313 Toxic Chemicals			1000
1,1,1-Trichloroethane	71-55-6	CERCLA Hazardous Substances			1000

Exposure Limits

[Add Exposure Limit](#)

Governing Body	Exposure Limit	Value	Unit
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Effective hazard communication and emissions management begins with knowing what you're dealing with. Preloaded with information on over 1,500 materials, Essential Chemical Inventory™ puts a comprehensive chemical properties desk reference at your fingertips.

**Define List Limits**

List Name: CERCLA Hazardous Substances  
Effective Date: 1/1/1990

**Default List Limits**

Reportable Quantity	Units
Threshold Quantity	<input type="text"/> Units
Threshold Planning Quantity	<input type="text"/> Units
De Minimis Concentration	<input type="text"/> Units

**Material Specific List Limits**

[Add a Material](#)

Material Name:  Starts With:  [Search](#) [Advanced](#)

Material	Synonym	RQ	RQ Unit	TPQ	TPQ Unit	TQ	TQ Unit	De Minimis	De Minimis Unit
2-Chlorophenyl Thiourea		100	lb						
1,1,1-Trichloroethane		1,000	lb						
1,1,2,2-Tetrachloroethane		100	lb						
1,1,2-Trichloroethane		100	lb						
1,2-Butylene Oxide		100	lb						
1,2-Dibromo-3-Chloroethane		1	lb						

Essential Chemical Inventory™ helps determine reporting thresholds, simplifies historical analysis, and generates accurate and reliable SARA 311 and 312 reports.

## Part of the Essential Platform

Best of all, Essential Chemical Inventory is fully integrated with the rest of Sphera Essential®, the complete enterprise software platform that reduces the complexity of EHS management in order to reduce your risks and costs.

**Inventory Transactions - Enterprise Entity & Material**

**Enterprise Entity**  
Clawson Manufacturing

**Storage Area ID**  
Building 10

**Material**  
Coating 100 ☐ Load All Material

**ID**  
10270

**Date**  
3/1/2017 12:00:00 AM

**Transaction Type**  
Addition

**Previous Balance (lbs)**  
0

**Inventory Information**

**Amount**  
1500

**Units**  
lb

**New Balance (lbs)**  
1500

**Activity**  
Process as an article component

**Transaction Origin**  
Mexico

**Transaction Destination**  
United States

☒ Is Manufactured

**Storage Information**

**Container Type**  
55 Gallon Steel Drum

**Pressure Code**  
1 - Ambient pressure

**No. Containers**

**Temperature Code**  
4 - Ambient temperature

**SVT**

**Inventory Transaction Exemptions**

[Add Transaction Exemption](#)

Governing Body	Exempt Reason	Other Exempt Reason
ECHA	"Re-Import" Transactions are exempt (Recall, Reformulate)	

Essential Chemical Inventory™ centralizes material data and enhance transparency for inventory and locations. Track container storage properties and storage area locations with container-level tracking for total visibility.

**Inventory Estimates**

**Enterprise Entity**  
Clawson Manufacturing

**Storage Area ID**  
Building 10

**Material**  
Coating 100 ☐ Load All Materials

**Effective Date**  
1/1/2017

**Estimates**

**Estimate Type**  
☒ Actual ☐ Calculated

**Activity**  
Process as an article component

**Days on Site/Year**  
365

**Average Amount**  
200

**Units**  
lb

**Maximum Amount**  
400

**Units**  
lb

**Use Amount**  
100

**Units**  
lb

**Storage Codes**

[Add Storage Codes](#)

Container Code	Temperature Code	Pressure Code
A - Above ground tank	4-Ambient temperature	1 - Ambient pressure

Essential Chemical Inventory™ tracks movement of materials in and out of storage and lets you produce regulatory reports, based on either estimates of the quantities involved or specific transaction details such as additions, use transfers, and adjustments.

For additional information email us at:

operationalexcellence@sphasolutions.com | [www.sphasolutions.com/environmental-performance/chemical-inventory-management](http://www.sphasolutions.com/environmental-performance/chemical-inventory-management)

### ABOUT Sphera Solutions

Sphera is the largest, global provider of software and information services in the Operational Risk, Environmental Performance and Product Stewardship markets. For more than 30 years, we have served over 2,500 customers and more than 1 million users in 70 countries optimize workflows and navigate the complex and dynamic global regulatory structure.