

The FacTS™ Chemical Inventory Tracking Module allows the user to track the movement of chemicals from the time of receipt through final disposition. Track transactions such as receipts into the facility, crib issues and returns within a building, moves between buildings, and exports from the facility.

Flexible

- ❑ Materials can be monitored through bulk transactions, which account for mass movement without regard to individual containers, or through individual container movements. For the latter, FacTS supports container characteristic information, such as identifying number, material type, and size. Data can be entered manually, or uploaded from other data capture systems such as RF bar code, MRP, or purchasing systems.
- ❑ FacTS can track the movement of materials (or containers) from one container to another, as is required to track movement and disposal of lab packs. The alphanumeric identifier that tags each container of waste is compatible with bar coding schemes.
- ❑ The entering of chemical data populates various files within the system, enabling the user to generate a wide variety of inventory management and regulatory reports.

Integrated

To track products leaving the facility, the user builds a file of endpoint codes. Up to 999 endpoint codes can be defined. For SARA Form R reporting purposes, each endpoint code is assigned a category type. The category type governs how emissions, effluents, or wastes are tracked for regulatory purposes. By selecting the proper endpoint code, the user is able to track process streams (feedstock) that become waste from the point of generation and storage, through final on-site or off-site disposition. Using the **Chemical Inventory Tracking** module in conjunction with the Waste Tracking module allows the user to maintain a true comprehensive database of all storage, movement, treatment, and disposal information.

By following a material's movement from receipt to final disposal, FacTS can generate mass balance reports around each facility or location within the facility. Alternatively, for clients who have not yet implemented a full material tracking system, Quantum's Chemical Tracking Module may be used without input from the inventory tracking portions of the systems.

Comprehensive

A series of material balance reports for entire facilities, specific locations, equipment or discharge points are provided with several FacTS modules. Functions are provided to allow the user to monitor chemical inventory and adjust or reconcile discrepancies. With the purchase of the **Equipment Distribution** and **Emissions and Effluent Management** modules, multiple conceptual process modeling functions are available to assist the user in completing these tasks.

The Roll-Up function uses raw data from the inventory transaction files to compute the actual daily, monthly, and annual quantities of material in storage, and the distribution of various ingredients within these materials.

A series of reports are available that describe both purchasing and usage data, including the quantities of materials and their ingredients by location and type. By using **Report Builder™**, these same usage/purchased reports could be run and sorted by product category, such as oils, coal, lignite, etc.



FacTS™

Quantum's relational database system links chemical inventory information to MSDS information, allowing automatic generation of standard Tier I/II and Form R reports (using the **SARA Tier** and **Form R** modules). Quantum offers customized State-specific Tier reports as well. The SARA Tier and Form R Modules generate the necessary worksheets and reports. FacTS also has electronic submittal options. For management purposes, reports included in FacTS compare rates of consumption of hazardous materials against regulatory lists, and quantity of chemicals emitted, discharged, and disposed.

FacTS maintains lists of materials which have Threshold Planning Limits, such as 302 Materials. The Ingredient Report can be sorted by these materials. Inventory records can also be compared to the list to find out which materials in the inventory must be reported.

For hazardous releases, the spill report file gathers the data required, such as product spilled, amount, media released to, and agency notified. FacTS automatically retrieves the chemical constituents for the reference product to determine if any SARA or CERCLA reportable ingredients are involved in the spill.

One of the principal advantages of FacTS is that it allows the user to maintain and track

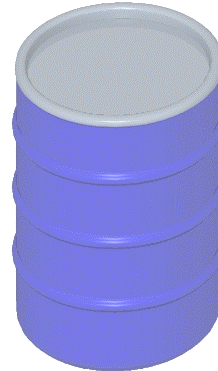
- Multiple Company Records**
- Multiple Facility Records**
- Multiple Group/Sector/Division Records**
- Multiple Building Records**
- Multiple Location Records**
- Multiple Job Cost Center Records**
- Multiple Year Records**

In addition, the system allows the user to prepare consolidated reports by any of these variables.

Inventory records can be tracked at any level of the company structure. The related reports allow the user to sort the data by the same above-mentioned variables. The records can be sorted by Facility, Group, Sector, Division, Location, and Date.

This design provides the user with maximum flexibility in defining both the organizational structure of the company and the physical layout of

the facilities, as well as how the chemicals will be tracked. For example, locations may be as broad as a warehouse or as specific as a shelf within a storage room. A job cost center may be defined as the assembly of a product for an entire company, or it may be the manufacture of one single component on a specific assembly line. Since locations are tied to the movement of inventory, their definitions may be expressly tailored for each facility to maintain the desired level of detail.



Management and removal of material that are more closely scrutinized by the agencies (e.g. PCB, asbestos, etc.) can be tracked using the features provided in the **Chemical Inventory, Sample Tracking, SOP and Inspection modules.**

FacTS allows the user to define and access an unlimited number of synonyms for every chemical existing in the database. The user can create his/her own file which the system can reference for a synonym check. Extensive information regarding the composition of the product, physical data, and chemical data is stored in the chemical component file and linked to the product through a specific identifier. Inventory records are linked to MSDS information (including NFPA and HMIS hazard codes) and stored by Product ID.

By relating an employee's department, product usage, and product characteristics, the system offers a series of health hazard reports. These reports identify potential exposures by location, employee, and departments. These reports can cover a range of variables, including time periods, locations, departments, and products.



Detail Oriented

A series of reports are included that allow the user to retrieve both current and historic records regarding the quantity of products used or stored in a particular location or quantities used by a specific department. Similar reports are available on ingredient bases. The Container Inventory reports provide similar accounting of containers by location. The Container History and Container Inventory reports allow the user to track material transferred to containers and the method by which materials are sub-divided and distributed. This module has many useful reporting features, including:

- The Emergency Response/MSDS Report allows the user to view all ingredients assigned to a

particular product, select the ingredient, and subsequently view the MSDS for that particular ingredient.

- Both the MSDS Generation and Emergency Response Report allow the user to search and retrieve data by the Product Name. To assist the user, view choice and wild card search features are included in the report functionality.
- The Product Manufacturer Report provides a listing of all MSDS by Issue and Revision Date. Both the issue and revision dates are carried in the MSDS file.

The Missing MSDS Report provides a listing of all products in inventory for which there are no MSDSs.

Facility Tracking System (c:/facts7): QCS

File Edit View Special Window Help

Container Move Transaction: Detail - Add One

CONTAINER ID: CuC19700003 CuC19700003

FROM BUILDING ID: PROCESS-001 PROCESS AREA 1

From Location ID: oil recovery oil recovery

Quantity (lbs): 20,158.60 Pounds (20,158.6 lbs./ 9,143.739 k

TRANSACTION DATE: 10/14/1998

TRANSACTION TIME: 11:56:28

Data Containers: Detail - Change (1 of 2) (+1)

TO BL Content: NonWa Inventory

TO LO CONTAINER ID: CuC19700003

To Busin CONTAINER DESCRIPTION: CuC19700003

FACILITY ID: CuC13 Copper Harbor Station

CONTAINER TYPE ID: 17e 17e 55 gallon

Lot Number:

Update of this field is not allowed.

Please enter the Content Code.

