



MSDS Algorithm

The FacTSTM MSDS Algorithm feature, used with MSDS Authoring and Distribution, allows you to create and populate an MSDS from ingredient or characteristic based rules.

OVERVIEW

The Algorithm feature supports the creation of rule sets defining how standard phrases should be associated with an MSDS at the chemical ingredient or physical property level. It was originally designed to accommodate the European market, which utilizes a risk and safety phrase logic in their MSDS cataloging system. This feature has since been adopted by many companies in the United States, Australia and Asia in order to broaden their QCS software capabilities.

SET UP PROCESS

The first step in the set up process is to define what fields within the MSDS will be used to trigger rule sets. Next, the appropriate data regarding ingredients, standard phrases, products, and mixtures must be entered into the FacT database.

The product data includes associating one or more ingredients to that product. For example, one product may consist of multiple ingredients, whereas another product may consist of 100% of a single ingredient. The mixture data defines the composition of the material (formula) in the proper ratios. In this step the user defines the ingredients that make up the finished product with the Product IDs and their corresponding quantities.

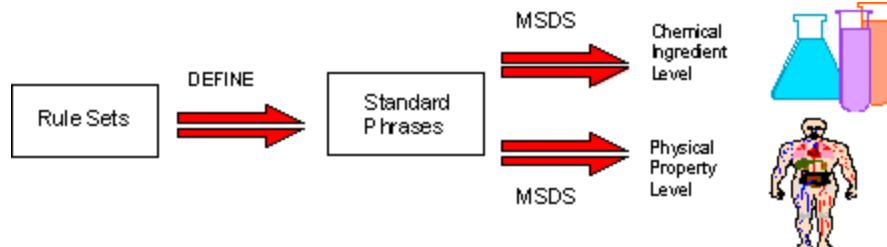
The MSDS data that isn't rule driven is defined in the Generic MSDS or MSDS Light Data Entry. This data will be combined with the rule based data when the MSDS is generated.

RULE DEFINITION

After the Set Up steps are complete, the user defines the characteristic and ingredient rules.

Characteristic Rules -

A user can define an unlimited number of Characteristic rules for phrase generation based on the chemical and physical properties of the final product. For each rule, there is a set of qualifications for the generation of a particular phrase. These qualifications are triggered on specific fields on the MSDS and target values.



Ingredient Rules – These rules are those that specify phrase assignment and hazard classifications to a preparation based on the percentage composition of named substances. In



these cases, the required percentage is specified to the named substance. If the named substance doesn't have a specific percentage limit assigned, default limits take precedence.

A priority can be assigned to both Characteristic and Ingredient rules if more than one standard phrase is applicable. Rules may also incorporate combination phrases such that if a condition triggers two phrases, a third combination phrase will be used.

EASY TO USE

This menu-driven, action prompted system with a Graphical User Interface minimizes data entry and retrieval time. Features such as the tool bar, accelerator keys, toggle box, and radio buttons further simplify data entry and retrieval. View Choice keys, Sort, Filter and Find functions assist in rapid data recovery. On-line context sensitive help is standard, complete with links and pop-up text. User definable, program level security eliminates costly errors brought on by unauthorized access or data entry.

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