



SAGE PFW

LABORATORY

■ **STREAMLINED INTEGRATION**

Take control of your laboratory management, as Sage PFW seamlessly integrates aspects of your business operations to eliminate redundant data entry and automate your workflow.

■ **AUTOMATED EFFICIENCY**

Increase accuracy and eliminate costly mistakes by automatically updating material property specifications for your in-house intermediates and finished good items.

■ **FLEXIBLE FORMULAS**

Extensive formula capabilities empower your technicians with the tools they need to develop and analyze cost-effective formulations for reporting purposes, cost reduction, or product development.

■ **POWERFUL PROPERTIES ANALYSES**

Powerful physical and comparative properties analysis capabilities streamline the tasks of determining target values, performing “what if” scenarios, and comparing physical properties.

■ **INSIGHTFUL REPORTS**

Sophisticated, customizable reporting transforms your data into strategic, decision-making tools that will help you more effectively manage your laboratory.

1. Formula Master	2. Cost	3. Safety	4. Line Items	5. By Products	6. Quality Control	Property	Value		
1	Inventory		IRONOX	IRON OXIDE	SLBCH	125.0000 LB	0.97500 121.875 0.0000000	TOTAL WEIGHT	527.03
2	Inventory		TALC	SILVER LAKE TALC	SLBCH	12.5000 LB	0.30900 3.8625 0.0000000	TOTAL VOLUME	101.500
3	Inventory		BARYTES	BARYTES/200	SLBCH	25.0000 LB	0.10000 2.500 0.0000000	STD. COST/POUND	0.521
4	Inventory		ALUMSTER	ALUMINUM STEARATE	SLBCH	1.0000 LB	0.80000 0.800 0.0000000	STD. COST/GAL	4.789
5	Inventory		SOVALEC	SOVALECTHIN	SLBCH	1.00 PINTS	0.63949 0.639 0.0000000	TOTAL VEH WTS	85.073
6	Inventory		SYNTEX	SYNTEX 142	SLBCH	30.0000 GAL	4.00000 120.000 0.0000000	TOTAL VEH VOL%	96.470
7	Inventory		NAPHTHA	VHMP NAPHTHA	SLBCH	18.8300 GAL	1.51480 28.738 0.0000000	PIGMENT WTE	14.827
8	Inventory		RESIN ANI	RESIN IN HOUSE INTER	SLBCH	10.0000 LB	0.64273 6.427 0.0000000	PIGMENT VOL%	3.500
9	Test			Grnd above in steel ball mill 1				VOLATILE WTE	14.391
10								VOLATILE VOL%	20.865
11	Inventory		SYNTEX	SYNTEX 142	SLBCH	37.0000 GAL	4.00000 148.000 0.0000000	DRG SOLV WTE	14.351
12	Inventory		MANGANESE	MANGANESE NAPHTHENA	SLBCH	1.00 PINTS	2.06600 2.066 0.0000000	DRG SOLV VOL%	20.865
13	Inventory		SCORALIN	COBAL NAPHTHENA	SLBCH	1.00 PINTS	0.44150 0.442 0.0000000	SOLIDS WTE	95.649
14	Inventory		ASA	ANTI-SKINNING AGENT	SLBCH	0.5000 GAL	-28.19572 14.093 0.0000000	SOLIDS VOL%	79.131
15								VEH SOLIDS WTE	70.721
16	Test			Drain and rinse with the follow:				VEH SOLIDS VOL%	75.601
17								DENSITY	9.141
18	Inventory		NAPHTHA	VHMP NAPHTHA	SLBCH	0.0033 GAL	1.51480 0.762 0.0000000	SPEC. GRAVITY	1.098
19								BULKING FACTOR	0.109
20	Labor		SBM LABOR/HOUR	STEEL BALL MILL LABOR/			FDOP 0.00000 0.000 0.0000000	P.V.C. %	4.461
21								P/B RATIO	0.271
22								SPREAD @ 1 MIL	1.283263
23								CPSPA @ 1 MIL	0.0098
24								COATING VOC	157.204
25								MATERIAL VOC	197.204
26									
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Save time and money without sacrificing accuracy or control. With the Sage PFW Laboratory module, your organization will have total control of the entire research and development process. Gain a competitive edge by utilizing comprehensive, highly flexible tools for strategic product development and planning. It's never been easier to get the insights you need to streamline R&D processes, compress product development cycles and empower your lab technicians to efficiently develop new, cost-effective product formulas.

Make smarter, more proactive decisions—Sage PFW's powerful and precise capabilities put you in control of your laboratory management. The Laboratory module gives you the speed, power and reliability of computerized formulation! It reduces the man hours spent on tedious, error-prone calculations and delivers a wealth of useful information quickly and accurately. This gives you the time and the data required to focus your efforts on the more creative aspects of product development. Your lab technicians will have the ability to perform “what-if” scenarios, so they can instantly analyze the impact of projected changes to the physical properties of your master formula. You can change an ingredient, quantities, reformulate your products to meet a specific target property value and calculate the physical properties of your formulas in just a matter of minutes. In addition, interactive analysis tools allow you to view and print physical properties, or compare the physical properties of two or three formulas. Sage PFW puts you in control so you can satisfy your unique business requirements today and easily adapt to changes in the future.

Sage PFW is developed to meet the needs of your business, providing fast, dependable, laboratory management and data security. Unlike the majority of manufacturing software, Sage PFW is the only software of its kind that was developed specifically to address the unique challenges of process manufacturing. Its complete solution of powerful financial and process manufacturing modules provide specifically targeted capabilities to boost production, maximize profits, and increase efficiency in your supply chain. For more information about Sage PFW and to reach a higher level of performance and profitability, please contact your local business partner, or call us directly toll free at 888-473-5135. You may also visit our Web site at: www.sagesoftware.com or e-mail us at: sagepfwinfo@sage.com



Sage PFW

Laboratory

"Before we had to hand-enter information from one system to another. System integration has eliminated this task and cut our total order processing time by about half."

Adrienne Olson, Controller
Sierra Corporation

FEATURES

Streamlined Integration

The Laboratory module allows quality control and lab personnel to work within a central database, sharing uniform, consistent and secure information without double entry or duplicate efforts. Further eliminate redundant entry efforts by leveraging information from the Inventory Pro and Formulas modules. Seamlessly add items, toggle between units of measure, resize the formula, and view all of the formula quality control and safety information. Integrate Laboratory with the MSDS and Labeling modules and you can print formula physical properties on your product labels or material safety data sheets. With this fully integrated solution, you'll have access to detailed records, so you can make insightful decisions and operate more efficiently.

Automated Efficiency

Quickly formulate new and reformulate existing formulas based on their raw material attributes and easily keep all data up to date. You can automatically update your in-house intermediates' material property specifications, based on the material properties of the intermediates' bottom-level ingredients. For example, if you have a formula, which is entered in another formula as an ingredient (an intermediate, by definition), you can adjust the intermediate's material physical property values based on the physical properties of its ingredients. This streamlined automation provides the most immediate information flow and ensures data accuracy.

Flexible Formulas

Capitalize on versatile features that allow you to set up equations to calculate the physical properties that you wish to track. You can add equations to calculate virtually any formula physical property that you can define! Your formulas can include an unlimited number of raw and intermediate materials, manufacturing instructions, lab or overhead costs, and quality control data. Used materials and material substitutions are also easily accommodated. You can automatically substitute one ingredient for another and use a different amount than the original. Each ingredient within a formula can have its own unique unit of measure and manufacturing instructions can always be added as needed. Loss factors can be assigned to the formula as a whole, and/or to individual materials, to account for various losses during manufacturing. In addition, the Laboratory module equips you with typical physical property equations tailored to your industry. Chemical and paint industries can leverage pre-defined equations for calculating coating and material VOC, density, specific gravity, bulking factor, material cost, percent solids and many more. In addition, there are several pre-defined equations to meet food manufacturer requirements, including calculating total fat, calories from fat, carbohydrate, protein, cholesterol, numerous vitamins and minerals, and over a dozen daily values (%DV). With Sage PFW your lab personnel will be able to focus their talents, time and resources where they are needed most—developing profit-boosting products.

Powerful Properties Analyses

Efficiently manage extensive amounts of comprehensive laboratory data, analyze it according to your business requirements, and make proactive decisions regarding the products you develop and manufacture. Interactive analysis considers every material in your formulation, including their specifications and relative quantities. You can change the quantity of an ingredient, or add a new ingredient, and immediately gauge its impact on the formula—making hypothetical "what-if" experimentation fast and simple. Changes in any number of formula physical properties are calculated instantly each time a change is made to an ingredient and/or quantity. Additionally, you can automatically reformulate products to meet target physical property values by simply selecting one or more ingredients for adjustment and entering the desired target value. Comparative properties analysis between two or three formulas is a snap, as the formula and all of its calculated properties are displayed side by side on one screen. The extensive analysis capabilities of Sage PFW empower your lab technicians with valuable formulation insights.

Insightful Reports

Robust reporting tools in Sage PFW provide quick and easy access to critical business information, as all reports can be tailored to your specifications using a variety of user-defined parameters. Detailed reports give breakdowns of item-level contributions to end physical properties and detailed physical property listings. You can quickly search your entire database of master formulas for those that fit a range of physical properties. This can include calculated physical properties, specific materials in specific concentrations, and/or quality control target values. Use this powerful feature to report all formulas whose coating VOC exceeds a specified maximum value. Additionally, you could search your database for formulations that closely conform to your target product before you begin research and development on a new product. The Laboratory module provides the reporting capabilities you need to maximize product opportunities.