



Recipe

TRAC-IT (3.06.522) DM1 (1) Admin 14/04/11 16:53

Order: ORDER 100 Contains: Target: 10

Operation: 1 Lot: LOT AAA C: 0.1 0.1

Product: PRODUCT A product description Weighted: 0

Ingredient: ING1 Ing 1 Difference: 10

Highly flammable; Irritating to eyes, respiratory system and skin

This ingredient contains the following Allergens:

Allergens

Nuts

'DEMO MODE' Scale 1 (Scale 1 @ 30.00 x 0.02kg)

Live target	10.00kg
Weighted	0.00kg
Remaining	10.00kg
Adjusted	0.00kg
Maximum	20.00kg
Zero	2.00kg
Tolerance	-0.10kg
Total target	60.00kg
Peak actual	0.00kg

10.00 kg

WEIGH:[ING1] Ing 1

ACCEPT FILL ABORT

Factfile: Trac-IT Recipe Formulation Module

Recipe Formulation is at the heart of a wide range of manufacturing processes in the cosmetics, personal care and pharmaceutical industries. In a nutshell, its precision and effectiveness set the benchmark for maintaining product quality, optimising stock management and minimising costly waste in processes that have to rely predominantly on manual recipe assembly procedures.

Manufacturers face a number of critical issues and challenges in this area, with many still relying on time consuming manual paperwork systems to manage the recipe procedure. These are inherently inaccurate and do not provide the necessary control and traceability required in these fast paced dynamic industry sectors. Without accurate, real time factory floor data, ERP/MRP systems run 'blind' and unaccountable losses are inevitable.

The Marco Recipe Formulation Module (RFM) has been specifically developed to manage your manual recipe processes, accurately and repeatably. The system guides operators through the formulation process; ensuring each and every ingredient; each and every sub batch is correctly collated. A key advantage is that it can be implemented as a standalone module within

your existing factory structure providing a rapid return on investment.

Marco RFM can be used to control the manual addition of micro ingredients, pre-mixes, sub batches and bulk additions. It is ideal for the preparation of:

- Cosmetics and Personal care products
- Health and dietary supplements

How does it work...?

The Marco system manages the whole recipe process from the time a Bill of Materials (BOM) is downloaded to its central DataMaster Terminal through to final mixing. Operator friendly workstation weighing scales, with clear unambiguous graphics, guide the operator through the formulation process. Barcode scanners are used to identify ingredients, premixes and sub batches, ensuring a strict FEFO use by date regime is followed. Simple touch screen prompts guide the user through the recipe process. The weighing of ingredients is controlled via a visual coloured bar graph system, removing the need for operators to concern themselves with actual weight values. Operators cannot proceed to the next addition stage unless correct target weights have been met for the current ingredient. COSHH related parameters for each ingredient are highlighted on the screen, advising operators on all the important factors relating to the actual ingredient being dispensed. The Marco RFM system features include:

- Operator accountability via ID recording
- Use by date compliance
- Stock visibility/availability
- BOM within BOM capabilities
- Ingredient and Recipe validation sign off from allocated users
- Priority scheduling of work orders
- Monitoring of BRC approved suppliers
- Rework routines
- Full COSHH messaging utilising latest GHS symbology
- Allergen warnings displayed at operator terminal for specific ingredients



Recipe

Case Study:

Company: Coty Inc

Location: Ashford, Kent, UK

Project Objectives: To ensure recipe consistency and improved traceability



A prime example of the effectiveness of Marco's Recipe Formulation Module is at Coty Inc's cosmetics plant in Kent – responsible for the production of the company's lipsticks, mascaras, foundations, eyeliners and powders for worldwide distribution.

Over 900 raw ingredients including liquids, pastes and powders, form the basis for these products and it is vitally important to ensure batch consistency. Spoilt or inconsistent batches are very costly, both in time and lost revenue. As Coty's manufacturing manager explains: "Each finished product is typically made up of between 20 and 40 different ingredients with batch sizes varying from 20-1000kg. Like many companies, our batching procedures had evolved around labour intensive and often inaccurate paperwork routines."

The Marco RFM system has made a significant difference to the recipe formulation process and ingredient weighing is now carried out at six PC-based, DataMaster stainless steel work stations.

The scheduled work plan is downloaded automatically from Coty's AS400 MRP system and the batches filtered to ensure the correct permissions are granted. The comprehensive display at each station shows all manufacturing instructions together with any pre and post weighing prompts including relevant health and safety instructions.

The Marco system provides Coty with accurate recipe formulation and full software integration. Stock details are now accurate and raw material bottlenecks, resulting in incomplete batches waiting for missing stock, have disappeared. The company can now plan raw material ordering much more precisely, avoiding both costly over-stocking and material shortages. Since the installation, Coty have seen a 20% increase in productivity and the system paid for itself in less than six months. They now have full batch traceability and 'right first time' batches have risen from 80% to 98%. Any variances are now due to acceptable variations in the natural colours of the ingredients.

Contact us for details on our other Profitability Modules:

Waste Management Module

Yield Control Module

'E' Weighing Control Module

Line Control Module



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