

Paint, detergent, adhesive and ink

Type the percentages the rest follows

Density, pigment loading against the critical point, VOC, flash point and cost – all computed from the formula, with a GHS label and safety data sheet that update themselves.

GHS label, computed

Summed from the ingredients

PVC vs CPVC

Gloss or matt, before the batch

16-section SDS

Printed from the formula

One formula drives it all — from lot to label

A formula is entered as percentages by weight and nothing else is typed. VLUERP works out its chemistry, its hazards and its cost, and traces every lot through every batch to the customer.



Chemistry from the formula

Density by the reciprocal rule, solids by weight and volume, PVC against CPVC, VOC less water and exempt solvent, flash point and coverage.



A label nobody types

Ingredient hazards are summed by class; change a supplier's hazard data and every label containing that material changes with it.



Batches that can be adjusted

A thin batch can be thickened and retested: release looks at the latest reading per property, with the history kept.



Traceability both ways

From a raw-material lot to every batch it went into, and from a finished batch back to every lot inside it.

16

sections in the SDS

5

reference formulas seeded

19

raw materials with CAS No.

98.58%

reference batch yield

Know the paint — before you make it

Every property that matters is computed from the formula lines — so a paint that has slipped past the critical point, or over the VOC ceiling, is caught on paper.



Formula chemistry

- Density comes from the volumes by the reciprocal rule; solids are shown by weight and by volume.
- Pigment volume concentration is compared with the critical value — the line between a gloss and a matt.
- CPVC is worked out from each pigment's oil absorption and density, blended on the volume-weighted harmonic mean.
- VOC in g/L is computed less water and exempt solvent; partly volatile carriers count by their solids.



GHS label and SDS

- Hazards are summed by class with the Category 1 weightings; acute toxicity by the ATE mixture formula.
- Aquatic hazard uses the tiered sums with M-factors.
- Where a stronger statement covers a weaker one — H314 over H318 — the weaker one is left off.
- The sixteen-section safety data sheet prints from the same computation.



Past the critical point, a gloss turns matt

In the reference plant, a contract matt sits deliberately at **PVC/CPVC 1.066** — over the critical point — and the dashboard flags it, alongside formulas over the VOC ceiling and materials without a data sheet.

Raw-material data

CAS number, density, solids, volatile content, flash point and oil absorption per material.

Cost per kilogram

Every formula shows its cost per kilogram from its raw-material costs.

Dashboard alerts

Formulas over the critical point or the VOC ceiling, or using a material without a data sheet.

From drum to drum – every kilogram traced

Deliveries booked in as lots, batches made to a formula in a named vessel, and a genealogy that answers both questions a recall asks.



Lots and release

- Each delivery becomes a lot with its CoA, retest date, location and value – and is released before use.
- What was used and what is left is kept per lot, at its own cost per kilogram.
- Where did it go? What went into it? – both answered from any lot or batch.



Batches and costing

- Planned against made kilograms gives the batch yield; tests are recorded per property.
- Disposition follows the latest reading per property, so an adjusted batch can be released.
- Material cost comes from the lots actually charged – a batch is never reported as free.

Reference formulas – in testing

Formula	What it shows	VOC / ratio
Solvent-borne alkyd gloss	White spirit counted by its solids, not a yes/no flag	487 g/L
Satin emulsion	Water-borne: VOC computed less water	55 g/L
Two-pack epoxy	A two-component reference formula	419 g/L
Dishwashing liquid	A detergent on the same formula engine	–
Contract matt	Deliberately above the critical point	PVC/CPVC 1.066

Reference plant: 19 raw materials with real CAS numbers, 26 lots, 13 batches and 13 shipments, at a batch yield of 98.58%.

Every screen in the module – and what is on it

Read off the running application – the panels, columns and figures that are actually there.

7 **51**
screens functions

01 Dashboard

Recent batches
Over the critical point
Over the VOC ceiling
Without a data sheet Batch yield
Rejected Density
Solids w/w · v/v PVC vs critical

02 Formulas

Trade Kind Lines Density
Solids v/v PVC Critical
VOC g/L Cost/kg

03 Batches

Formula Vessel Planned kg
Made kg Yield Tests
Cost/kg Operator State

04 Raw materials

Supplier CAS Density
Solids Volatile Flash point
Oil absorption Cost/kg
On hand

05 Lots

Book in a delivery Delivered kg
Left Used Retest CoA
Value Where Release

06 Traceability

Pick a starting point
Where did it go?
What went into it?

07 Settings

The GHS vocabulary
Load or refresh vocabulary
Check the ledger accounts

Not a separate program – a complete business system

The trade module sits on top of a complete ERP: everything it does lands directly in the accounts, the stores and the reports – no double entry.



Accounting

Editable chart of accounts, automatic entries from every transaction, VAT and financial statements.



Financial dimensions

Cost centres, departments, business lines and sites – with statements per factory.



Inventory

Warehouses and bins, batches and serials, moving average, FIFO or standard cost.



Purchasing & sales

RFQs, purchase orders and receipts, quotations, invoices and ageing.



Maintenance & assets

Equipment register, preventive maintenance, work orders and depreciation.



Access & language

Roles and rights per module, audit trail, full Arabic and English interface.

Standards and regulations supported

UN GHS

Hazard classification and labelling

GHS SDS

Sixteen-section safety data sheet

CAS RN

Substance identity on every material

The GHS vocabulary of hazard classes and statements is loaded in Settings and can be refreshed; labels and data sheets are computed from it.

Bring your own formula to the demo

Book a session and we'll set up the demo with one of your own formulas – then watch the chemistry, the label and the cost come out of the percentages.

Request a demo

Website

www.vluerp.com

Demo request

www.vluerp.com/#demo

Email

hello@vluerp.com

- 1 A formula:** density, PVC against CPVC, VOC and cost from nothing but the percentages.
- 2 The label:** change one material's hazard data and see every label that contains it change.
- 3 A batch:** a failed test, an adjustment and a release on the latest reading.
- 4 Traceability:** from one raw-material lot to every batch and shipment it reached.

Switched on from Add-ons with a free seven-day trial, and it runs on the same general ledger.