

GHS Label Solution



WHAT IS GHS ?

GHS is a worker safety initiative to provide chemical handlers with important hazard information. With GHS chemical manufacturers must reclassify their chemicals using the GHS standardized classification criteria. GHS has created a single international hazard warning communication system using standardized color pictograms. GHS requires GHS compliant labels by June 1, 2015.

CHALLENGES

- Every chemical produces unique hazards.
- Each hazard type will now require a unique COLOR pictogram.
- The number of pictograms will often vary from label to label.
- The # of pictograms must match the # of hazards. No extra symbols or blanks are allowed.
- The number of color pre-printed labels required will explode greatly increasing costs and reducing efficiencies.



<Preprinted label>



<GHS Label>

PRINT GHS BS5609 LABELS WITHOUT ANY MOQ

With Epson's ColorWorks labeling solutions, chemical manufacturers can create full-color GHS compliant labels on synthetic materials that are waterproof, smudge-proof and alcohol and chemical resistant. Epson's ColorWorks inkjet printers are BS5609 qualified when used with Epson polypropylene media.



NO PRE-PRINTED LABELS REQUIRED

With Epson ColorWorks, just load plain labels and print.

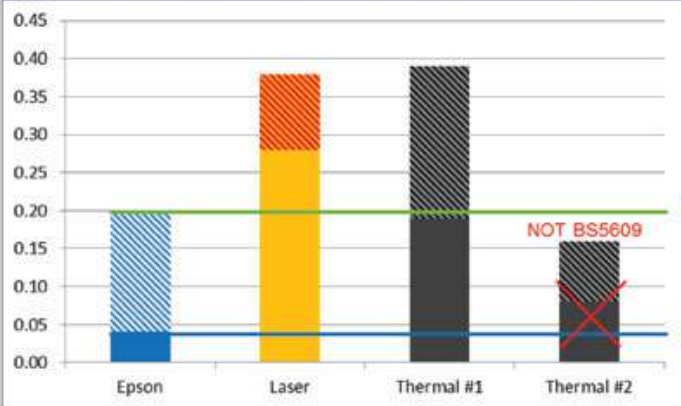


DURABILITY IS CRITICAL FOR CHEMICAL HAZARD LABELS

Epson's durable pigment-based inks deliver outstanding stability and resistance to many chemicals including, MEK, alcohol, acetone as well as oil and water, fading and smudges



COST PER TYPICAL GHS LABEL - 8.5" X 11"



- MEDIA
 - INK-TONER-RIBBONS

LOWEST TOTAL COST
 LOWEST IMAGE COST

EPSON has the

Lowest Up-Front Cost

Lowest Operating Cost

Most Durable Labels

A versatile on-demand color label printer

ColorWorks C6500 / C6000 Series



8inch Auto-cutter model

8inch Peeler model

4inch Peeler model

4inch Auto-cutter model

FEATURES

- Auto Cut or Auto Peel
- 1200 DPI Print Resolutions
- Spot Color Matching
- Compatible with Multiple OS with SAP System
- Can be Integrated with Label Applicator
- Easy Use and Maintenance
- Durable, Exceptional Quality Inks
- Low Heat Printing Technology
- Continuous or Die Cut Printing

BENEFITS

- Color Printing On Demand
- Eliminate Label Waste
- Drastically Reduce Label Inventory
- Eliminated Unexpected Charges
- Pigment Ink Resistant to Smudge, Fade & Water
- Selective Ink Cartridge Replacement
- Fast Printing Speed
- Eliminate Traditional Two-Step Printing Process

VALUES

- Enhance Visibility with Color Printing
- Full Control on Label Inventory
- No Pre-printed Label Ordering with MOQ
- BS5609 Certified Solution for GHS Labelling
- Maximize Product Visibility, Branding and Enhance Reputation
- Improve Visual Recognition of Vital Information
- Highlight Information within Label's Content



EPSON HEAT-FREE TECHNOLOGY

With no heat used in the ink ejection process, Epson Heat-Free Technology reduces power consumption in printing, saving significant energy compared to laser printers. This lowers the environmental impact of your printing, whilst reducing your energy bills too.



INCREASE PRODUCTIVITY AND REDUCE ENVIRONMENTAL IMPACT WITHOUT COMPROMISE.

A tough workhorse

The Epson ColorWorks™ C830 is built to meet stringent label printing requirements at Whitford, a global maker of fluoropolymer coatings.



PRINTING colour labels may seem like a simple task to most organisations, but not to Whitford, makers of the world's largest, most complete line of fluoropolymer coatings used on most household wares and vehicles.

It was critical that its labels had to adhere to strict standards set by the Globally Harmonised System (GHS) of classifying and labelling chemicals. With its previous colour laser printer, the company faced frequent outages and breakdowns during the printing process. They were printing about 2,000 labels a week.



"Paper jams were a very frequent issue," says Mr Don Leung, Whitford's Asia Pacific IT manager. "The high heat of the printer after prolonged usage also caused the label glue to melt and stick to the rollers."

As a result, he had to replace the printer's

fuser, belt and other mechanical parts, due to the glue residue inside the printer. Whitford's operations were so affected that it had to purchase a few more units for redundancy purposes.

"Our previous printer could not meet our printing needs," Leung says. "We concluded that it was unfit for printing labels."

The solution to his woes came in 2013, when he chanced upon the Epson ColorWorks™ C830, a business inkjet printer built to meet the toughest label printing requirements.

At Whitford, label printers must be tough workhorses that can handle large print volumes in excess of 2,200 labels a week. "Our printers need to withstand running for long durations. They should be able to feed the labels smoothly without much manual intervention, while printing quickly to meet the job demands. We are also looking for a printer that uses ink efficiently," said Leung.

According to Leung, the C830 fulfils those requirements. Thanks to the printer's speedy performance of 19.7ppm, Whitford now takes just 14 seconds, compared with 24 seconds previously, to print each label using a GHS application hosted in its UK data centre.

"Despite the high latency Internet connection between the UK and Singapore, we are happy with the printer performance and speed," Leung says.

"In fact, with the C830, Whitford has slashed its monthly spending on black and colour cartridges by 70 per cent."

Paper jams are also a thing of the past, as the C830 is designed to minimise such issues that plague other competing printers.

And even if a paper jam happens, the printer will automatically release the paper guide, allowing for the rapid removal of media.

The C830 also uses high-capacity ink cartridges to enable affordable, large-volume printing while dramatically lowering downtime spent on changing cartridges, creating more uptime and less periodic maintenance.

In fact, with the C830, Whitford has slashed its monthly spending on black and colour cartridges by 70 per cent.

"Our production staff are quite happy now," Leung says. "They don't need to deal with paper jams or work overtime just to finish printing all the labels. They can focus more on their main duties, and do not need to pay much attention to the printer."

So satisfied were they with the C830 printer, the company bought two more units for their Singapore office, and another three units for its plant in China.

