

CLP labeling for Gas and chemical industry according to BS5609

Safety and correct labeling of products protect both people and the environment.

In the gas and chemical industry, safety and correct labeling of products is of utmost importance to protect both people and the environment. However, CLP (Classification, Labeling, and Packaging) labeling according to the BS5609 standards presents significant challenges in these sectors. The extreme conditions, including exposure to chemicals, weather and water, require labels that are extremely durable and resistant.



Reliable and durable marking that meets the strictest requirements.

To meet these challenges, the industry calls for technological innovation. We at Grafokett are a leading supplier of labeling solutions and have the knowledge and products for four-color printing. By combining advanced technology with BS5609-certified materials, Grafokett's solution enables reliable and durable marking that meets the most stringent requirements.

[Read more about product labeling here](#)

Test methods and performance requirements

BS5609 is a British standard that sets out requirements for chemical resistance and durability of labels used on dangerous goods and chemical packaging transported by sea. Certification to BS5609 means the labels have undergone rigorous testing to maintain their legibility and adhesive properties even under extreme conditions such as prolonged exposure to salt water and sun.

Print key effectiveness

This test measures the resistance to pressure removal by adhesive. Ink must not be removed from more than 5% of the printed area of each color. Any changes should not be less than grade 3 in the British standard gray scale. Any legends or symbols must remain identifiable.

Abrasion resistance

This test measures the abrasion resistance of the print after exposure to a seawater/sand abrasion cycle. The color must remain recognizable. Any change should be no less than grade 2 in the British standard gray scale. Any legends or symbols must remain identifiable.

Permanence of print

This test measures resistance to change after exposure to salt spray/accelerated light cycles. The level of exposure to artificial daylight is measured with a Blue Wool reference *. The samples are exposed to Blue Wool 5, gray scale 2. The color should remain recognizable. Any fading or color change should not be less than Grade 2 of

the British Standard Gray Scale. Any legends or symbols must remain identifiable.

*Blue Wool reference for assessing light fastness..- [Read more here](#)

Glossy synthetic label that is water and chemical resistant

The label is printed with an Epson ColorWorks CW-C6500A with Gloss Ink.

Requirements to meet OSHA standards

BS5609 is one of the most common benchmarks for certifying sustainability. Epson was the first to create a BS5609-certified inkjet solution and continues to offer superior printers for on-demand, durable color label printing that meets the new OSHA Hazard Communication Requirement.

Read more about the provision here:

<https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1200>

Methanol



CE5653



Methyl alcohol
CH4O NH=72.06
 CAS:67-56-1 <99.0% d1.05
 Made in USA

DANGER



32.04 g/mol; mp; -98 bp:64.7 , d 0.791 g/mL at 20;
 0.791 g/mL at 25 , n 20/D = 1.329(lit.); n 20/D= 1.329

Assay Spec	>99.8%(GC)	Al	<0.5 mg/kg	Fe	<0.5 mg/kg
KMnO ₄ -reducing	in accordance	Ba	<0.1 mg/kg	Na	<0.5 mg/kg
acetone	none detected.	Bi	<0.1 mg/kg	Ni	<0.1 mg/kg
aldehyde(as CH ₃ CHO)	<0.001%	Ca	<0.5 mg/kg	Pb	<0.1 mg/kg
free acid(as HCOOH)	<0.00025%	Cd	<0.05 mg/kg	Sr	<0.1 mg/kg
free alkali(as NH ₃)	<0.0001%	Co	<0.05 mg/kg	Zn	<0.1 mg/kg
ketone(as CH ₃ COCH ₃)	<0.001%	Cr	<0.02 mg/kg		
		Cu	<0.02 mg/kg		

EC 200-659-6, EC Label , WGK 1

EN Highly flammable, Toxic; R11, R23/24/25, S 7 , S16 , S36/37 , S45

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation. In contact with skin and if swallowed. Keep container tightly closed. Keep away from sources of ignition - No smoking. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately(show the label where possible).

Manufacturer: Chemical Engineering | 1234 | Sydney,NSW | 0562-01577-57822

Refer to the SDS before use.

Epson printers in combination with the right material & ink provide water-resistant and chemical-resistant prints
ColorWorks CW-C4000



Read more:

<https://epson.com/For-Work/Printers/Label/ColorWorks-CW-C4000-Color-Inkjet-Label-Printer-%28Gloss%29/p/C31CK03A9991>

ColorWorks CW-C6500A



Read more:

<https://epson.com/For-Work/Printers/Label/ColorWorks-CW-C6500A-Color-Inkjet-Label-Printer-with-Auto-Cutter-%28Gloss%29/p/C31CH77A9991>

Read more Epsons solutions here:

<https://epson.com/chemical-label-printing-solutions>

Find your printing solution here: <https://www.grafokett.se/en/cloud-label-pricing/>

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Tack för ditt meddelande! Vi återkommer så snart vi kan.

×

Något gick visst fel ☐ - Försök gärna igen, eller ring oss på +46(431)47 43 00

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