



Phosgene Indicator Badge MEDIC

New Research Findings in Industrial Hygiene

Phosgene is above 7,5°C (46°F) a gas. In strong dilution the odor of this gas is sweetish, in higher concentration like rotten hay. Phosgene is an important intermediate for the production of polyurethanes (foams glues and coatings) and polycarbonates (bumpers, CDs, even bridges) and numerous pharmaceuticals.

Phosgene may be harmful to health. Like in any chemical plant, also in Phosgene plants high safety standards apply.

In the unlikely event, humans have been exposed to Phosgene, it is important for the attending physician to know the exact amount of exposure. For the doctor this is the only way to determine the appropriate treatment immediately.

Phosgene exposures do not develop immediate symptoms. Therefore the indicator badge is the essential tool for the doctor.

Latest research findings have shown, that medical treatment of exposures below **50ppm*min** may cause more damage than cure. Therefore the therapy procedures had to be adjusted.

Therefore industry requirements to indicator badges have changed. New badges with a measuring range of **10 – 300 ppm * min** were needed. Compur Monitors answered this need by developing the new indicator badge MEDIC.

Application

The new MEDIC badge is very easy to use.

- Write your name and the actual date into the relevant cell.
- Activate the badge by removing the protective cover in front of the indicator.
- Replace the badge after five days.

The indicator is specific to Phosgene. Other chemicals, humidity or sunlight have no impact.



Label it with your name and the date



Fasten it to your collar



...breast pocket...



...or hardhat.

Evaluation

Read the total exposure to Phosgene by comparing the badge with the color comparator which is included in each package.

A paper comparator is free of charge - and accessible whenever it is needed. Therefore the MEDIC system does not require any electronic or mechanical device for evaluation.

Place the exposed badge underneath the comparator scale. Read the scale at the cell that matches the color of the exposed badge best. The indicator starts changing color at 10 ppm * min.

The stain is stable over a longer period of time. Nevertheless it is recommended to evaluate the badge immediately.

Comparator

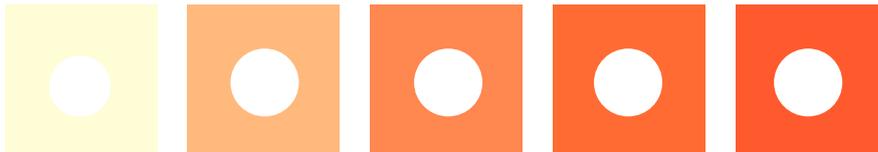
ppm * min:
10

50

100

150

300



Technical Data	
Size	72 x 44 x 4 mm (2,3 x 1,7 x 0,16")
Weight	2,6 g
Materials used	PET, PE, Paper
Color change	yellowish → red
Range	10 - 300 ppm * min
Min. / max. duration of use *	1 Minute until 5 days after activation
Storage temperature	+2°C to +25°C
Application temperature	-20°C bis +40°C
Humidity	10 % - 100 % r.F.

* The duration of usage is related to the intended use as a personal total exposure monitor for Phosgene.

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