

GPC8

Glutaraldehyde and Twin Chain
QAC-based disinfectant



Is GPC8 corrosive?

The short answer is no

But what does corrosive mean?

Our in-house Research and Development (R&D) laboratory used an adapted method of the UN 37.4 test method to determine whether corrosion occurred on a variety of surfaces. According to these guidelines, a substance is considered non-corrosive if it results in a mass loss of less than 13.5% after 7 days of exposure.

The table below summarises the results of our corrosion tests on different materials after a 7 day exposure to GPC8 at a dilution of 2% v/v, immersed at 40°C.

Type of surface	Mass loss%	Corrosion rate mm/yr	Test result
Steel	0.103	0.040	Negative
Aluminium	0	0	Negative
Stainless Steel	0	0	Negative
Galvanised Steel	0.017	0.006	Negative

As the mass loss was significantly below the threshold defined by the UN guidelines, GPC8 at 2% v/v is not considered corrosive. However, while the results show no corrosion, discolouration on softer materials can occur after long-term exposure.

It should be noted that in a real-world scenario, the chemical would not have this level of prolonged contact with the surface, so the corrosion rate is likely to be lower than that observed in the test.