

Gefran, a company with a green soul always caring for the environment and for public health, once again is taking a transparent approach regarding European Directive 2011/65/UE (RoHS II - Restriction of Hazardous Substances)

From **next July 22nd** it will enter into force the European Directive 2011/65/EU, implemented in Italy by Legislative Decree. N.27 of 2014 on restrictions on the use of certain substances contained in Electrical and Electronic Equipment (EEE) including mercury.

It is therefore a **compulsory Directive** within the European Union, which applies to electrical and electronic instruments containing mercury - including monitoring and control systems, such as **high temperature pressure sensors** - placed on the market starting from July 22nd, with some exclusions and derogations.

In compliance with the **highest European standards of health and safety**, **GEFRAN**, always a green oriented Company, **wants to propose** to the market pressure sensors for high temperatures totally mercury-free, or without any filling fluid inside:

- **Sensors with sodium potassium filling fluid** (NaK series)
- **Sensors with oil filling fluid FDA approved** (W series)
- **Sensors with no filling fluids** (Impact series)

In this scenario, **mercury-containing sensors** may **still be sold** after 22-07-2017, **provided that**:

1. They can fulfill its function only if they are part of that equipment, (**not multitasking**)
2. They can be replaced only by the same specifically type of sensor (**not interchangeable**)
3. They are used as **components in large-scale fixed installation or in large-scale fixed industrial tools, or for laboratory tools** B2B for R&D purposes

GEFRAN As a manufacturer and therefore responsible for any non-compliance with the Directive, **verifies and ensures** to its customers that **conditions 1 and 2** are always respected.

That makes **GEFRAN** stand out for its green approach, with full respect of the rules and in full transparency with respect to the applicable regulations.

Compliance with condition no. 3 is entrusted to the customer.

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For any further doubts, questions or concerns on the implications of the new European Directive RoHS II, **GEFRAN** is fully available to provide the **best assistance** and to advise on the most **suitable solution**.

Finally, here are some **useful definitions** taken **directly from the Directive**.

Art. 3 par. 4 large-scale fixed installation:

“large-scale combination of several types of apparatus and, where applicable, other devices, which are assembled and installed by professionals, intended to be used permanently in a pre-defined and dedicated location, and de-installed by professionals”.

Art. 3. Par. 3. large-scale fixed industrial tools:

“a large-scale assembly of machines, equipment, and/or components, functioning together for a specific application, permanently installed and de-installed by professionals at a given place, and used and maintained by professionals in an industrial manufacturing facility or research and development facility”

Here some **useful examples**

- **large-scale fixed installations:** installations that, because of their size and weight, need ISO containers of 20 feet and lorries of more than 44 tons, or industrial cranes, or reinforced foundation, or of more than 375 kW of power
- **large-scale fixed tools:** even with smaller dimension than the installations, still significantly greater than other stationary tools with the same application.
- products within the definition of “**machinery**” according to Directive 2006/42/EC;
- **fixed installation:** installation that is not easily removable and/or that is intended to be used during its life basically in a fixed place.
- Laboratory extruder for R&D purposes

We can therefore conclude that extruders, extrusion plants and plastics processing plants fall under the above mentioned definitions and that the installation of mercury melt pressure transducers in such equipments is allowed.

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