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Dear Customer

Update on Edwards policy on removal of hazardous substances and RoHS compliance

The European RoHS Directive 2002/95/EC restricts the use of certain hazardous materials in electrical and electronic equipment in the following categories: large and small household appliances; information technology and telecommunications equipment; consumer equipment; lighting equipment; electrical and electronic tools; toys, leisure and sports equipment and automatic dispensers.

Edwards will comply with the recast of the European RoHS Directive 2011/65/EU, from 2013, and as its scope broadens to cover all electrical and electronic equipment by 2019.

All Edwards' products within the current scope of EU RoHS (that is our Fabworks range of network components) are RoHS compliant.

All Edwards' products which are within the scope of China RoHS (that is semiconductor pumps) comply with its requirements.

In addition, Edwards aims to comply, for commercial and ethical reasons, across a broader scope of products ahead of any legal requirements.

It is Edwards' policy for all new designs to be EU RoHS compliant, subject to demonstrating practical solutions including acceptable reliability.

In the absence of any global standard, a number of other countries and many customers have been looking at their specific RoHS requirements. Where there is no other legal specification we are adopting the European RoHS restricted materials list, limits and exemptions as our standard for RoHS compliance. These limits are set out in the table below.

Substance	Typical Uses	Limits (by weight of the homogeneous material*)
Lead	Solders, pigments, PVC stabilisers, balance weights	0.1 wt%
Cadmium	Pigments, plastics stabilisers, platings, batteries, contacts	0.01 wt%
Mercury	Switch and relay contacts, batteries, sensors, fluorescent tubes	0.1 wt%
Hexavalent Chromium	Coatings and platings (esp. Aluminium), metallised plastics	0.1 wt%
PBB	Flame retardant, no longer produced	0.1 wt%
PBDE	Flame retardants for variety of plastics	0.1 wt%

* a single substance that could (theoretically) be mechanically separated from other substances

We are also adopting the same route to demonstrating compliance for all products as that required by European RoHS, that is self-certification based on technical documentation. We believe this is a practical approach and matches the requirements of most of our customers.



Status Update:

- All suppliers have been contacted regarding the compliance status of more than 14,000 parts used in our products:
 - Over 90% of these parts are RoHS compliant
 - We continue to work actively with our suppliers on the remaining items.
- Procedures related to the introduction of new components require RoHS compliant items to be sourced.
- We have invested in a complete in-house lead-free soldering capability which includes a dedicated wave solder line, a surface mount line and oven and hand-soldering equipment and training. Extensive reliability trials have been conducted on these in-house processes.
- Our current policy is to achieve voluntary compliance with the materials limits of the EU RoHS Directive for:
 - All new product designs, subject to demonstrating acceptable reliability and subject to copy exact compliance with some customers. Some specific products may be excluded from this plan.
 - All existing designs of scientific products (e.g. turbomolecular pumps and controllers, small rotary pumps, scroll pumps, instruments including active gauges and controllers, valves, oils and some coupling components and seals). However, as noted above, full compliance may not be achievable for some components.
- To date the following products are fully compliant:
 - Fabworks network components
 - Semiconductor dry pumps - iXH and iXL.
 - Oil sealed rotary vane pumps - RV, EM and EV - and accessories
 - Turbo pumps and EXDC 24V controllers - EXT, EXT DX and nEXT - and accessories
 - Turbo pumps and controllers, magnetically levitated - STP
 - Scroll pumps - XDS
 - Diaphragm pumps - XDD1 and D-Lab
 - Industrial drypumps and GXS
 - Industrial roots pumps
 - Active gauges - APG, APG100, AIM, ATC, ASG and WRG - and ADC controllers
 - Tool interface module, MicroTIM
 - Valves - BGV, BRV, AV, GV, IPV, LCP, LV, PV, QSB and SP
 - Dial gauge, CG
 - Vacuum switches, IS and VS
 - Hardware and coupling components
 - Oils and fluids

The following products will be fully compliant pending completion of the transition to lead-free devices and adoption of lead-free soldering: TIC controllers, EXC and EXDC 80V turbo controllers.

We continue to work with our suppliers to finalise details on our other product lines.

For further information please refer to the Environmental section of our Corporate Responsibility website at www.edwardsvacuum.com or get in touch with us via your usual local Edwards contact. If in doubt about how to contact us, details can be found using the Contact Us listing on our website.

Yours sincerely

Ian Stones, Director of Technology.