

## **BPA Statement**

17th January 2020

### **What is BPA?**

BPA (CAS No. 80-05-7) is short for Bisphenol A. It is utilized as a monomer in the manufacture of Polycarbonate (PC)<sup>1</sup>, Epoxy<sup>2</sup>, Polysulfone and Polyether ketone resins<sup>3</sup> and as a polymerization inhibitor in Poly Vinyl Chloride (PVC) manufacture<sup>4</sup>. BPA is also used as a colour developer in paper products and as an antioxidant <sup>4</sup>.

### **Health effects of BPA**

Detailed literature reviews have categorically listed the health risks associated to BPA exposure ranging from adverse effects on the endocrinal, reproductive and neurological systems <sup>5-6</sup>.

Effective from the 11<sup>th</sup> of May 2015, the Office of Environmental Health Hazard Assessment (OEHHA), USA added BPA to the list of chemicals known to cause reproductive toxicity for purposes of the Safe Drinking Water and Toxic Enforcement Act of (Proposition 65) <sup>7</sup>.

The EU banned use of BPA in the manufacture of baby bottles in March 2011 <sup>8</sup> and updated their stance by introducing a specific migration limit (SML) <sup>9</sup>, which is the amount of the substance that can migrate from the plastic food contact material into the food. This places restrictions on the use Of BPA in other food contact plastic manufacturing.

In 2010, the Australian Government announced a voluntary phase out of BPA use in polycarbonate baby bottles. China outright banned usage of BPA in infant bottles in June 2011 <sup>11</sup>.

In food contact applications, apart from baby bottles, there is a general consensus on the reduction of BPA usage, but no specific International agreements have been reached with respect to complete restriction of BPA in food contact plastics.

### **FLEXCUBE**

Our mission as an organization is to provide the best packaging system combined with rigorous manufacturing standards. Our products are based on Polyethylene - a polymer that

does not require the use of BPA at any in the manufacturing cycle. However, to reassure our customers, we conduct different purity tests on all the components that make up our product prior to assembly.

On the basis of those tests we can make the following statements:

1. Semi Volatile Organic Content Analysis established that the BPA level was found to less than the limit of quantitation <sup>12</sup> and less than the established NOAEL (No-Observed-Adverse-Effect-Level) of 5 mg/kg/day <sup>13</sup>.
2. The materials used in the manufacture of our product contain only ingredients that meet the current requirements of the US Food and Drug Administration (FDA) for use under regulations 175.105, 175.300, 176.170, 176.180, 177.1520, 177.1550, 177.2600 and 178.3570 for articles coming into repeated contacted with food <sup>14</sup>.

The results of such rigorous testing have helped us assert to the best of our ability that the FLEXCUBE range of products are BPA free and adhere strictly to the standards of the US FDA <sup>13</sup> and the additional restrictions of Proposition 65 <sup>7</sup>.

If you require more information on this topic, please contact the company.

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