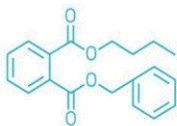


## Letter of Guarantee on Hazardous substance to Environments

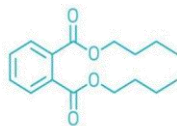
1. Our company presents <the Letter of Guarantee on the Hazardous substance to Environments> to guarantee the environmental-friendliness of our products in response to the international regulation on hazardous substance to environments.
2. All Copper and Copper Alloy products manufactured from our company doesn't contain phthalate, and also we do not use phthalate in manufacturing process.

► **Phthalate**

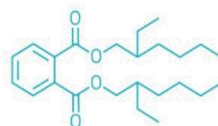
- Phthalate is a substance used as a softener for polymer materials and used for adhesives between material and resin, and for hardener of plastic materials. There is no possibility of inclusion in metals or ceramic materials.
- Phthalate is a typical environmental hormone substance, a compound that confuses the hormone physiology of the endocrine organs, and is easily exposed to the human body and does not release when absorbed.
- Kinds of phthalates : BBP, DBP, DEHP, DIBP, DIDP, DINP, DNOP, DPP, DIPP, DIHP, DHNUP, DMEP, DNHP etc.
- Compound structure (Metal have no compound structure)



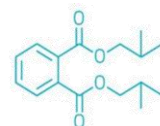
Butyl benzyl phthalate (BBP)



Di-n-butyl phthalate (DBP)



Di(2-ethylhexyl) phthalate (DEHP)



Diisobutyl phthalate (DIBP)

3. POONGSAN hereby certifies the above statement to be true. If the above statement turns out to be false, we guarantee to take full responsibility for all matters.

Company : POONGSAN CORPORATION  
 Name : Jong-Soo, Yuem  
 Title : Quality Assurance Team Leader  
 Signature : J.S. Yuem