

## 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 any Bromine Flame Retardants, and also we do not use Bromine Flame Retardants in manufacturing process.

► **DBDPE, DP (Flame Retardants) / (HBCDD, PBBs, PBDEs (Bromine Flame Retardants)**

\* Flame Retardants

- Plastic is easy to burn, and toxic gases are produced when burning, so make sure that plastic does not burn well. Flame Retardants are materials that added to improve the burn resistance of plastics.

\* Bromine Flame Retardants

- The compound used to prevent or delay ignition by adding it to combustible materials such as plastics, electro-electronic circuit elements, TV, building materials, and fires.

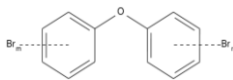
The representative Bromine Flame Retardants are HBCDD / PBBs / PBDEs.

They release environmental hormones which adversely affects pregnant women and fetuses.

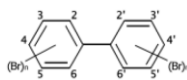
And Dioxin occurs when Bromine Flame Retardants incinerated.

\* Chemical Structure of Bromine Flame Retardants **(Metal has no chemical structure.)**

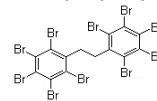
- Polybrominated biphenyls(PBBs)



- Polybrominated diphenyl ether(PBDEs)



- Decabromodiphenyl Ethyle (DBDPE)



\* Reference : Metals do not volatilize or vanish when heated.

(The melting point of our products is over 1,000°C)

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 : Sang-Uk, Park  
 Title : Quality Assurance Team Leader  
 Signature : *S. U. Park*