



Consumer products

HCT-2019-09-05

## Germany PAHs Requirements updated to the 2019 version

On May 15, 2019, the German Product Safety Commission (AfPS) announced the new standard AfPS GS 2019:01 PAK (Previous version AfPS GS 2014:01 PAK) for products requiring GS certification. The new standard came into effect on July 1, 2020, and AfPS GS 2014:01 PAK will be expired after June 30, 2020.

### The mainly changes are:

1. Three items (Acenaphthene, CAS No. 83-32-9), (Acenaphthylene, CAS No. 208-96-8), (Fluorene, CAS No. 86-73-7) were deleted and 15 items were updated accordingly from the previous 18 items;
2. And the categories to this standard compared as below:

| Standard   | AfPS GS 2014:01 PAK   |                             | AfPS GS 2019:01 PAK   |                         |
|------------|---|-----------------------------|---|-------------------------|
| Category 1 | Materials intended to be put in the mouth, or materials of toy with intended long-term skin contact (longer than 30 seconds)                                |                             | Materials intended to be placed into the mouth, or Materials in toys or articles for children up to 3 years of age with intended long-term skin contact (more than 30 s)* |                         |
| Category 2 | Materials not covered by Category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact* |                             | Materials that do not fall into Category 1 with intended or foreseeable long-term skin contact (more than 30 s) or repeated short-term skin contact                       |                         |
|            | Toys in the scope of 2009/48/EC   | Other products in the scope | Use by children   | Other consumer products |
| Category 3 | Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 second(short term skin contact)   |                             | Materials that do neither fall into Category 1 nor 2 with intended or foreseeable short-term skin contact (up to 30 s)  |                         |
|            | Toys in the scope of 2009/84/EC   | Other products in the scope | Use by children   | Other consumer products |

### The products falling into the scope are mainly:

Electrical and electronic products, toys, food packaging materials, plastic products, rubber products and machinery etc. which need to get GS certification.

### Limits for PAHs in the new requirement:



| Parameter                      | Category 1  | Category 2  |                 | Category 3              |                 |
|--------------------------------|---|---|-----------------|-------------------------|-----------------|
|                                | Materials intended to be placed into the mouth, or Materials in toys or articles for children up to 3 years of age with intended long-term skin contact (more than 30 s)* | Materials that do not fall into Category 1 with intended or foreseeable long-term skin contact (more than 30 s) or repeated short-term skin contact | Use by children | Other consumer products | Use by children |
| Benzo[a]pyren<br>mg/kg         | < 0.2   | < 0.2   | < 0.5           | < 0.5                   | < 1             |
| Benzo[e]pyren<br>mg/kg         | < 0.2   | < 0.2   | < 0.5           | < 0.5                   | < 1             |
| Benzo[a]anthracen<br>mg/kg     | < 0.2   | < 0.2   | < 0.5           | < 0.5                   | < 1             |
| Benzo[b]fluoranthen<br>mg/kg   | < 0.2   | < 0.2   | < 0.5           | < 0.5                   | < 1             |
| Benzo[j]fluoranthen<br>mg/kg   | < 0.2   | < 0.2   | < 0.5           | < 0.5                   | < 1             |
| Benzo[k]fluoranthen<br>mg/kg   | < 0.2   | < 0.2   | < 0.5           | < 0.5                   | < 1             |
| Chrysen<br>mg/kg               | < 0.2   | < 0.2   | < 0.5           | < 0.5                   | < 1             |
| Dibenzo[a,h]anthracen<br>mg/kg | < 0.2   | < 0.2   | < 0.5           | < 0.5                   | < 1             |



|  |           |            |             |             |             |
|--|-----------|------------|-------------|-------------|-------------|
| Benzo[ghi]perylene<br>mg/kg                                | < 0.2     | < 0.2      | < 0.5       | < 0.5       | < 1         |
| Indeno[1,2,3-cd]pyren<br>mg/kg                             | < 0.2     | < 0.2      | < 0.5       | < 0.5       | < 1         |
| Phenanthren<br>Pyren<br>Anthracen<br>Fluoran-then<br>mg/kg | <1<br>Sum | < 5<br>Sum | < 10<br>Sum | < 20<br>Sum | < 50<br>Sum |
| Naphthalin<br>mg/kg  | < 1       | < 2        |             | < 10        |             |
| Sum of 15 PAHs<br>mg/kg                                    | < 1       | < 5        | < 10        | < 20        | < 50        |

“\*” EU REACH annex XVII No. 50 doesn't have a specific definition concerned of repeated short-term skin contact. For detailed please see to (EU) No. 1272/2013 annex XVII.

Original link: [AFPS GS 2019:01 PAK](#)

## HCT solution :

There is less than one year before the new requirement coming into effect. HCT suggests the manufacturers and traders to be proactive and make proper preparation, purchase the green and environmental raw material, test the related finished products and conduct inspection on the whole production line and the supplier. For the products has got a GS Mark certificate, enterprises should be proactive to conduct safety assessment to insure the conformity. Shenzhen Hongcai testing technology co., LTD has got guangdong metrology certification CMA and CNAS qualification, the MDL of PAHs can get to 0.2 mg/kg, could help enterprises with testing PAHs, for details please call us to consult.

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