


| | | |
|---|-------------------------|---|
|  Green Mark | <h1>Hand Dryers</h1> | No. 127 |
| | | Category No. J-10 |
| Date of Promulgation: December 31, 2013 | Ministry of Environment | Date of Latest Revision: Feb. 13, 2019 |

1. Scope

This standard applies to both touch-activated and sensor-activated hand dryers (“products”).

2. Terms and definitions

For this standard, the following terms and definitions shall apply.

Disassemblability: Refer to the requirement of Designed for Disassembly in Section 7.4 of *CNS 14021 Environmental labels and declarations -- Self-declared environmental claims (Type II environmental labelling)*, the term “**disassemblability**” means the product with parts and components of different materials can be disassembled and separated using regular tools (such as a screwdriver) during the product’s end-of-life treatment process.

3. Product characteristics

3.1 The product’s energy efficiency shall meet the *Energy Efficiency and Labeling Requirements for Hand Dryers* of the Energy Labeling Program, Bureau of Energy, Ministry of Economic Affairs.

3.2 During use, the product’s noise emission shall be less than the regulatory limit.

3.3 The product shall be disassemblable.

4. Materials, accessories and components

4.1 The product’s plastic components shall not use chlorinated plastics, and the product shall meet the requirements of ISO 11469 in labelling all major plastic components weighing more than 25 g in prominent areas to indicate the composition code.

4.2 Product’s plastic parts weighing more than 25 g shall meet the following requirements:

- (1) content of cadmium, lead, hexavalent chromium and mercury shall be below the regulatory limit; if recycled materials are used in the parts or safety considerations require the addition of glass fiber to the parts, the parts’ lead content shall be less than 20 mg/kg.
- (2) content of the following flame-retardants shall be below the regulatory limit:
 - (a) Polybromobiphenyls (PBBs);

- (b) Polybromodiphenyl ethers (PBDEs): Include bromodiphenyl ether, dibromodiphenyl ether, tribromodiphenyl ethers, tetrabromodiphenyl ether, pentabromodiphenyl ethers, hexabromodiphenyl ethers, heptabromodiphenyl ethers, octabromodiphenyl ether, nonabromodiphenyl ether, and decabromodiphenyl ether; and
- (c) Chloroparaffins with 10-13 carbon atoms per molecule and chlorine content of greater than 50% by weight.

4.3 The product's attached labels/stickers shall be able to be separated from the product with ease, or they shall be made from the same material as the components they are attached to.

4.4 For the product's surface coating material, its content of cadmium, lead, hexavalent chromium, and mercury shall be below the regulatory limit.

5. Test methods and regulatory limits

The applicable test methods and regulatory limits for this standard are listed below.

| Applicable Part | Regulated Substance | Regulatory Limit | Referenced Test Method |
|------------------|--|------------------|--|
| Whole product | noise | < 70db(A) | CNS 7183 CNS 14653 |
| Plastic | cadmium | < 2 mg/kg* | NIEA M353 US EPA 3051A US EPA 3050B |
| Plastic | lead | < 2 mg/kg | NIEA M353 US EPA 3051A US EPA 3050B |
| Plastic | hexavalent chromium | < 3 mg/kg | NIEA T303 US EPA 3060A US EPA 7196A |
| Plastic | mercury | < 2 mg/kg* | NIEA M317 NIEA M318 US EPA 7471B US EPA 7473 |
| Plastic | polybromobiphenyls (PBBs) | < 10 mg/kg* | US EPA 3540C US EPA 8081A US EPA 8082A US EPA 8270D |
| Plastic | Polybromodiphenyl ethers (PBDEs) | < 10 mg/kg* | US EPA 3540C US EPA 8081A US EPA 8082A US EPA 8270D |
| Plastic | chloroparaffins with 10-13 carbon atoms per molecule | < 10 mg/kg | US EPA 3540C US EPA 8081A US EPA 8082A US EPA 8270D |
| Coating material | cadmium | < 2 mg/kg | NIEA R353 US EPA 3051A |
| Coating material | lead | < 2 mg/kg | NIEA R353 US EPA 3051A |
| Coating material | hexavalent chromium | < 3 mg/kg | NIEA T303 US EPA 3060A US EPA 7196A |

| | | | |
|------------------|---------|------------|---|
| Coating material | mercury | < 2 mg/kg* | NIEA M317 NIEA M318 US EPA 7471B US EPA 7473 |
|------------------|---------|------------|---|

*: The test report shall provide evidence that the employed test methods have detection limits of less than 1/3 of the regulatory limits.

6. Labeling

- 6.1 The name, address and consumer hotline of the Green Mark user shall be clearly printed on the product or packaging.
- 6.2 The product or packaging shall bear a label reading "Energy Saving" and "Low Pollution".

Revision History:

First revision: February 13, 2019