

TGL-10-97

Detergents

Laundry detergent is a chemical product mainly composing of surfactant, builder and more than 20 types of other ingredients. The important impacts to the environment are caused during utilization because some of substances accumulate in environment and cause water and soil pollution.

Biodegradability, phosphate content reduction, and reducing or recycling packaging enhancement can provide a significant reduction in natural resource utilization, chemical and nutrient contamination in water resources, and water treatment cost.

Category Definition

This category includes detergents in both powder and liquid forms as defined in the following sub-categories:

1. Powder Detergent
 - 1.1. Standard Laundry Powder Detergent
 - 1.1.1. Standard Laundry Powder Detergent for Hand Wash
 - 1.1.2. Standard Laundry Powder Detergent for Machine Wash
 - 1.1.3. Standard Laundry Powder Detergent for both Hand and Machine Wash
 - 1.2. Concentrated Laundry Powder Detergent
 - 1.2.1. Concentrated Laundry Powder Detergent for Hand Wash
 - 1.2.2. Concentrated Laundry Powder Detergent for Machine Wash
 - 1.2.3. Concentrated Laundry Powder Detergent for both Hand and Machine Wash
2. Liquid Detergent
 - 2.1. Laundry Liquid Detergent

Green Label Requirements

To be authorized to carry the Green Label, a product must meet both the general requirements and the specific requirements listed below:

A. General Requirements

The products must:

1. be qualified to the National Quality Standard.
Note The product sold in Thailand must pass the Thai Industrial Standard TISI 578 which is the regulating standard.
2. be manufactured, transported and disposed in a manner meeting requirements of all applicable governmental acts and regulations such as Factory Act, Environmental Quality Promotion Act or Industrial Estate Law in case that the factory locate in the Industrial Estate.

B. Product Specific Requirements

In the event of any conflict arising, the original criteria in Thai is to be final authority.

1. Degradability

The product must be aerobically biodegradable and/or anaerobically biodegradable at 90 percent or less.

2. pH values

2.1. pH values of standard and concentrated laundry powder detergents for hand wash must not exceed 10.5.

2.2. pH values of standard and concentrated laundry powder detergents for both hand and machine wash must not exceed 10.5.

2.3. pH values of standard and concentrated laundry powder detergents for machine wash must not exceed 11.

2.4. pH values of laundry liquid detergents must not exceed 10.5.

3. Unused chemicals

The product must not contain:

3.1. carcinogen, genotoxic, mutagen, teratogen and the substances toxic to reproduction according to Hazardous Substance Act B.E. 2535.

3.2. reactive chlorine compounds such as sodium hypochlorite, organic chlorine compounds.

3.3. ethylene diamine tetraacetic acid (EDTA) or other EDTA salts.

3.4. alkyl phenol ethoxylates (APEO).

3.5. nitrilotriacetic acid (NTA) or other NTA salts.

3.6. halogenated hydrocarbon.

3.7. formalin.

4. Acceptable chemicals

4.1. Phosphate content as P_2O_5 of standard laundry powder detergents for hand wash and for both hand and machine wash must not exceed 18 percent by weight.

4.2. Phosphate content as P_2O_5 of standard laundry powder detergents for machine wash must not exceed 25 percent by weight.

4.3. Phosphate content as P_2O_5 of concentrated laundry powder detergents for hand wash and for both hand wash and machine wash must not exceed 20 percent by weight.

4.4. Phosphate content as P_2O_5 of concentrated laundry powder detergents for machine wash must not exceed 28 percent by weight.

4.5. Phosphate content as P_2O_5 of laundry liquid detergents must not exceed 18 percent by weight.

4.6. Perfume must be certified by International Fragrance Raw Material Association and Research Institute for Fragrance Material.

5. Packaging

5.1. Packages must not be manufactured with inks, dyes, pigments and other additives which contain lead, mercury, cadmium and hexavalent chromium and do not have a combined contamination concentration exceeding 250 ppm.

5.2. Plastic package

5.2.1. must have symbols of recycling plastic on package.

5.2.2. The package or label must not contain polyvinylchloride (PVC) or chlorinated.

5.2.3. shall be made from domestic recycled plastic.

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- 5.3. Paper package must be made from recycled pulp at least 70 percent by weight.