

TGL-19-98

Dishwashing detergents

Dishwashing detergents consist of various surfactants and other chemical compounds of which some are rarely biodegradable or are toxic or carcinogens. When discharged and accumulated in receiving water bodies, these chemicals change the ecological balance and impact the living organisms in the food chain.

The criteria for the Green Label dishwashing detergents have been based on the biodegradability in natural conditions, non toxic compounds not harmful to living organisms as well as receiving environment, and encouraging less or recycleable package which reduces the contamination of chemicals to aquatic resource, saves natural resource and reduces treatment cost.

Category Definition

This category includes only liquid dishwashing detergent used by hand.

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 product must:

1. be certified to the Thai Industrial Standard , Standard for Dishwashing Liquid type or if not certified, must have passed the Thai Industrial Standard product quality test or other standardized tests of product quality; and
2. be manufactured, transported and disposed in a manner meeting requirements of all applicable governmental acts and regulations such as Factory Act etc.

B. Product Specific Requirements

1. Degradability: The product must be biodegradable at least 90 percent.
2. pH values: The product must have pH value between 5.0-9.5
3. Unused chemicals: The product must not contain:
 - 3.1 Carcinogen, genotoxic, mutagen, teratogen and the substances toxic to reproductive system according list of chemicals in Food and Drug Administration database.
 - 3.2 Surfactants
 - alcohol ether sulphate (FES), 16 carbon
 - alkylphenolethoxylate (APEO)
 - block copolymers EO/PO
 - disulphosuccinate
 - ethoxylated amines
 - α -methyl ester sulphonate (SES)
 - α -olefin sulphonate (AOS), 16 carbon and long carbon chains
 - quaternary alkyltrimethylammonium salts (ATMAC)

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- quaternary dialkyldimethylammonium salts (DTDMAC)
 - secondary alkane sulphonate (SAS)
 - sulphobetaine
- 3.3 Complexing agents
- nitrilotriacetic acid (NTA)
 - phosphonates
- 3.4 Solvents
- *i*-butanol
 - *n*-butanol
 - *t*-butanol
 - dearomatised white spirit, D 100
 - dearomatised white spirit, D 70
 - diethylene glycol
 - ethylene glycol
 - ethylene amines
 - 2-ethylhexanol
 - halogenated hydrocarbon
 - methanol
 - methylisobutylketone, MIBK
 - monoethanolamine/diethanolamine
 - triethanolamine
- 3.5 Bleaching agents
- chlorisocyanurates
 - hypochlorite
 - perborates
- 3.6 Other chemicals
- formalin
 - chemical dye
- 1 Acceptable chemicals
- 4.1 Phosphate content as P₂O₅ must not exceed 6 percent by weight
- 4.2 Zeolite content as Na₂Al₂Si₃O₁₀·2H₂O must not exceed 5 percent by weight
- 4.3 Ethylene diamine tetraacetic acid (EDTA) content must not exceed 0.3 percent by weight
- 2 Packaging
- 5.1 Plastic packages must have symbols of recycling plastic according to Thai Industrial Standard TISI 1310, Standard for Symbols for Recycling Plastics or ISO 1043
- 5.2 The packaging or label must not contain polyvinylchloride (PVC) or chlorinated.

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