

## **GREEN CHOICE PHILIPPINES**

### **NELP-GCP 20080031 LIQUID DISHWASHING**

#### **1. ENVIRONMENTAL SCENARIO**

Detergents, intended for washing dishes, cookware, flatware and other cooking utensils contain chemical substances such as alkalis, complexing agents, bleaches, tensides, protective colloids and anti-corrosion agents.

The major active component in hand dishwashing detergents is surfactant, which contributes to food soil removal. These surfactants may accumulate and may be toxic or otherwise harmful in the environment. To reduce environmental health impacts, dishwashing detergent components should either be environmentally innocuous or should be biodegradable, and the degradation products should not pose an increased risk to the environment.

#### **2. DEFINITION OF TERMS**

##### **2.1. CHEMICAL CONTROL ORDER**

Prohibits, limits, and regulates the use, manufacture, import, export, transport, processing, storage, possession and wholesale of priority chemicals.

##### **2.2. DENR ADMINISTRATIVE ORDER 2005-05 (DENR AO 2005-05)**

Toxic Chemical Substances for Issuance of Chemical Control Orders

##### **2.3. DENR ADMINISTRATIVE ORDER 2005-27 (DENR AO 2005-27)**

Revised Priority Chemical List

##### **2.4. FRAGRANCE AND COLORING**

Organic substances, added primarily for aesthetic reasons to give color and smell.

##### **2.5. HARD SURFACTANT**

Refers to surfactants with low biodegradability rate, including chemicals such as hard or branched alkyl benzene; hard or branched alkyl benzene surfactants, hard or branched dodecyl benzene sulfonates, branched dodecyl benzene, their sodium or potassium salts and other technical names referring to the same chemical compound.

##### **2.6. IMPORTATION**

Means the entry of a product or substance into the Philippines (through the seaports or airports of entry) after having been properly cleared through or still remaining under customs control, the product or substance of which is intended for direct consumption, merchandising, warehousing, for further processing.

##### **2.7. PRESIDENTIAL DECREE 881 (PD 881)**

A decree empowering the Secretary of Health in regulating the labeling, sale and distribution of Hazardous Household Substances.

## **2.8. PRIORITY CHEMICALS LIST (PCL)**

Is a list of existing and new chemicals that the DENR has determined to potentially pose unreasonable risk to public health, workplace, and the environment.

## **2.9. PROCESS**

Means the preparation of a chemical substance or mixture after its manufacture for commercial distribution:

1. In the same form or physical state or in a different form or physical state from that which it was received by the person so preparing such substance or mixture; or
2. As part of an article containing a chemical substance or mixture.

## **2.10. REPUBLIC ACT 6969 (RA 6969)**

Toxic Substances, Hazardous and Nuclear Waste Control Act

## **2.11. REPUBLIC ACT 8970 (RA 8970)**

Ban HABS Law

## **2.12. TOXIC WASTES**

Toxic wastes are wastes that are considered poisonous and have carcinogenic, mutagenic, or teratogenic effects on human or other life forms.

## **2.13. TRANSPORT**

Includes conveyance used in air, water and land.

## **2.14. UNREASONABLE RISK**

Means expected high frequency of undesirable effects or adverse responses arising from a given exposure to a substance.

## **3. SCOPE**

These criteria are applicable to liquid dishwashing.

## **4. GREEN CHOICE REQUIREMENTS**

### **4.1. Product Quality Performance**

Products shall be of high quality and perform well in their intended application. The products must ensure its fitness for its intended purpose and where relevant.

#### **4.1.1. pH Level**

The pH level shall fall between 5.0 and 8.0.

### **4.2 Product Environmental Performance**

#### **4.2.1 Compliance to Environmental Regulations**

The applicant is required to comply with relevant environmental legislations this includes production process, transport and disposal features of the product.

#### **4.2.2 Surfactant**

- The product shall not contain any hard surfactants defined in RA 8970

- Alkyl phenol ethoxylates (APEO) and alkyl phenol derivatives (APD) shall not be added to the product.

#### 4.2.3

##### **Preservatives**

Preservatives shall not be bioaccumulative. The requirement is imposed in order to reduce the environmental impact associated with the use of preservatives since they are often highly toxic to water-borne organisms. Biocides may be added only as preservatives, not for the purpose of disinfecting wash surfaces.

#### 4.2.4

##### **Builders**

- The product shall not contain nitrilotriacetate (NTA) and Diethylene triamine pentaacetic acid (DTPA).
- Ethylene diamine tetraacetic acid (EDTA) and phosphonates shall not exceed 0.1%.

These substances are suspected to mobilize heavy metals in certain environments due to the formation of complexes. EDTA is also not readily degradable.

#### 4.2.5

##### **Fragrance**

- The product shall not contain any substances listed in ASEAN Cosmetic Harmonization.
- Fragrance containing the following nitro-musk compounds must not be used because of their cancer risk, the following substances are:
  - Musk xylene
  - Musk ambrette
  - Moskene
  - Musk tibetine
  - Musk ketone

#### 4.2.6

##### **Formaldehyde**

The product shall not contain more than 0.1% by weight of formaldehyde

#### 4.2.7

##### **Coloring Agent**

All organic colorants in the product introduced either as ingredients or through a raw material, shall be approved for use in foodstuffs or as listed in ASEAN Cosmetic Directive.

#### 4.2.8

##### **Other Harmful Substances**

The product shall not be formulated or manufactured with the following ingredients and its derivatives:

- Chlorine and chlorine compounds
- Methyl Dibromoglutaronitrile (MG)
- Opacifiers
- Perborates
- Quaternary ammonium salts that are not readily degradable
- Trichloroethane
- Xylene sulfonates
- 2-Butoxyethanol
- Phthalates
- Substances listed in DENR AO 2005-05 and DENR AO 2005-27

**4.3 Other Criteria**

**4.3.1 Label**

- The label must include detailed instructions for proper use to maximize the product performance and minimize waste.
- The labels shall comply with the labeling requirements of PD 881.

**4.3.2 Packaging**

- In case of plastic packaging, this shall have a sign indicating the kind of plastic used for producing the package.
- If the product is in liquid form, its packaging shall be capable of long-term repeated uses. The consumers shall also be provided with easily refillable packaging or container.

**5. EVALUATION AND VALIDATION**

PRODUCT CRITERIA	EVALUATION AND VALIDATION
<b>4.1 PRODUCT QUALITY PERFORMANCE</b>	
4.1.1 Product Quality Standard	The applicant shall submit a certification from recognized/ accredited laboratories* and certification bodies**
<b>4.2. PRODUCT ENVIRONMENTAL REQUIREMENTS</b>	
4.2.1. Compliance to Environmental Regulations	The applicant shall submit applicable licenses and permits indicating the manufacturer's compliance with agreements on environmental regulations applicable to the area where the plant is located**
4.2.2. Surfactants	The applicant shall submit a certification from recognized/ accredited laboratories* and certification bodies.**
4.2.3. Preservatives	
4.2.4. Complexing Agent	
4.2.5. Fragrance	
4.2.6. Formaldehyde	
4.2.7. Coloring Agent	
4.2.8. Other Harmful Substances	
<b>4.3. OTHER CRITERIA</b>	
4.3.1. Label	The applicant shall submit a portfolio and statement in writing signed by the Chief Executive Officer or an authorised representative officer or an authorised representative of the company and shall be accompanied by the relevant documentations and samples.**
4.3.2. Packaging	

\* Laboratories accepted by national or international accreditation bodies such as the Asia Pacific Laboratory Accreditation Cooperation (APLAC) or International Laboratory Accreditation Cooperation (ILAC)

\*\* Notarized documents

## **6. PERIOD OF VALIDITY**

The product criteria shall take effect for three (3) years from the date of its approval, and subject to change or withdrawal by the *Green Choice Philippines-ELP Board*, if necessary at any period of time

### **Reference:**

1. Nordic Ecolabelling: *Green Background document for the Ecolabelling of Industrial Cleaning and Degreasing Agents*; December 2004.
2. European Union – DG Environment; *Ecolabel Criteria for All-Purpose and Sanitary Cleaners*; December 2000
3. Green Seal, Inc.; *Green Seal Environmental Standard for General-Purpose, Bathroom, Glass, and Carpet Cleaners Used for Household Purposes*; 2007
4. BC Center for disease Control Laboratory Services; *A Guide to Selection and Use of Disinfectants*; 2003.
5. <http://www.geca.org.au>
6. <http://www.epa.gov>
7. DENR Administrative Order No. 36-2004 – Hazardous Waste Management
8. DENR Administrative Order 2005-05 - Toxic Chemical Substances for Issuance of Chemical Control Orders
9. DENR Administrative Order 2005-27 - Revised Priority Chemical List
10. Republic Act 6969 - Toxic Substances, Hazardous and Nuclear Waste Control Act
  11. Republic Act 8970 - Ban HABS Law
  12. Presidential Decree 881 -Empowering the Secretary of Health to regulate the labeling, sale and distribution of Household Hazardous Substance.