SPEC. No. CC-5.0
ENVIRONMENTALLY-FRIENDLY FOAMING HAND SOAP

A. GRADE, TYPE, SIZE AND LABEL:

1. Grade and Type. The Ready-To-Use foaming hand soap covered by this specification shall be one grade and shall be specifically suitable for the cleaning of the skin when delivered from the appropriate foaming hand soap dispenser. This product shall meet or exceed either Green Seal or EcoLogo applicable certification standards to be considered for testing.

2. Size and Label. This material shall be furnished in new, non-returnable, commercial type, factory sealed containers. All containers shall be labeled with labeling impervious to the contents of the container. Such labeling can be accomplished through printing directly on the container, by attaching a paper label, or a tight-fitting sleeve-type label on a plastic container designed to receive and hold sleeve-type labels. No labels shall be easily removed from the container whether the container is full or empty. Labels shall give adequate use instructions and warning of toxicity, skin irritants and/or possible damage to vulnerable surfaces, if any. Labels shall meet all federal regulation requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard in CFR 1910.1200.

B. MATERIALS AND WORKMANSHIP:

1. General.
   a. The foaming hand soap covered by this specification shall contain no animal fats or petroleum derivatives. Therefore, if produced by saponification of vegetable oils using KOH, the process must exclude petroleum derivatives like propylene glycol. If produced by sulfonation, the finished product must not contain more than 5 ppm of 1,4 dioxane.
   b. At least 50% of the solids content of this product must be derived from natural ingredients.
   c. The soap may be mildly perfumed and may be dyed with color, so long as it is from a batch certified as harmless and suitable for the purpose of coloring under the terms of the current Federal Food, Drug, and Cosmetic Act.
   d. The materials used in its manufacture shall be of the highest quality commercially available and shall have been refined sufficiently to eliminate possible irritants, odorous substances, and other undesirable impurities.
   e. The soap shall be produced by application of skillful and modern techniques with suitable and adequate manufacturing facilities.

In order to confirm compliance, the vendor shall submit a confidential, notarized, legally-binding manufacturer’s letter or report indicating that the specific product submitted for certification meets all requirements stated in this B.1 General section. The natural ingredient % in the solid content must be specifically indicated in the letter or report.

---

1 Vendors submitting for certification products that are neither Green Seal nor Ecologo-certified shall submit independent laboratory compliance confirmation for each requirement acceptance criteria included in either the Green Seal or Ecologo corresponding applicable standard.

2 As the maximum allowable water (moisture) content for this product is 91 %, the solid content must be at least 9 %. This requirement states that 50 % of that solid material must be derived from natural ingredients.
2. **Fragrances.** The product shall declare any fragrances on the product label and on the corresponding SDS. Any fragrances used shall be compliant with the code of practice of the International Fragrances Association (IFRA).

3. **Dyes.** If formulated with dyes, the product shall contain only food grade dyes.

4. **Carcinogens.** The product shall not contain any chemicals included in the International Agency for Research on Cancer (IARC) lists for proven (Group 1), probable (Group 2A, or possible (Group 2B) carcinogens.

5. **Skin Sensitization and Irritation.** The product shall not be a skin sensitizer or irritant as tested by OECD Guidelines for Testing Chemicals.

6. **Prohibited Ingredients.** The product shall not contain the following ingredients:
   
   a. Phosphates
   b. NTA
   c. EDTA
   d. APEOs
   e. Halogenated organic solvents
   f. Butoxy-ethanol

7. **VOC.** The product shall not contain volatile organic compounds (VOC) in excess of 1%.

8. **Aquatic Biodegradability.** The product shall be readily biodegradable.

9. **Stability and Storage.** The product and container shall be stable and shall not lose effectiveness or otherwise deteriorate for at least one year when stored in unopened containers in accordance with manufacturer's specifications. Stacking and storage heights for products shall be provided on the exterior storage container or carton.

10. **Product Specification Sheet.** A copy of the manufacturer's specification sheet for this product is to be submitted for certification.

**C. REQUIREMENTS:**

Unless otherwise noted, all test methods cited are the latest published revisions.

1. **Free Alkali, Calculated as Potassium Hydroxide.** The free alkali content, calculated as KOH, in any sample of the foaming hand soap supplied under this specification shall not be more than 0.15% when tested in accordance with ASTM D 460.

2. **Free Acid, Calculated as Oleic Acid.** The free acid content, calculated as oleic acid, of any sample of the foaming hand soap supplied under this specification shall not be more than 1.0% when tested in accordance with ASTM D 460.

3. **Salt Content.** The salt content as NaCl (sodium chloride) cannot be more than 1% in the finished product when tested in accordance with ASTM D 460.

4. **Viscosity.** The viscosity of any sample of the liquid hand soap supplied under this specification shall be no higher than 100 cps as measured with a Brookfield viscometer in accordance with ASTM D 2196.

5. **Matter Insoluble in Alcohol.** Matter insoluble in alcohol in any sample of the foaming hand soap supplied under this specification shall be not more than 0.10% when tested in accordance with ASTM D 460.
6. **Matter Insoluble in Distilled Water.** Matter insoluble in distilled water in any sample of the foaming hand soap supplied under this specification shall be not more than 0.20 % when tested in accordance with ASTM D 460.

7. **pH Value.** The pH of any foaming hand soap supplied under this specification should preferably be as close to neutral (pH=7) as possible and it shall definitely be not higher than 8.0 when diluted 1 part of soap: 1 part of distilled water tested in accordance with ASTM E 70.

8. **Moisture.** The maximum moisture content of the foaming hand soap supplied under this specification shall be 91.0 % when tested in accordance with ASTM D 820.

9. **Stability in Hard Water.** When diluted 1 part soap:4 parts 150 ppm synthetic hard water, the foaming hand soap supplied under this specification shall yield no solids in suspension.

10. **Sudsing.** The wet volume of foam measured 5 seconds after a capped 250 ml-graduated cylinder containing 50 ml of the foaming hand soap supplied under this specification has been inverted 30 times, shall be at least 100 ml as per FED-STD-536A/2001.2.

11. **Safety Data Sheet (SDS).** A clearly identifying this product, filled out completely according to the Florida Workers Right-to-Know Law (Chapter 442, Florida Statutes) must be submitted with each sample submitted for certification.

**D. METHODS OF SAMPLING, INSPECTION, AND TESTING:**

1. **Sampling.** At the option of the purchaser, representative samples shall be taken from deliveries made under this invitation and submitted for quality control testing. If the purchaser's sample fails, the manufacturer shall pay for the actual cost of testing. Failure of any sample so taken to comply with the specification requirements shall invalidate any purchase contract made under this invitation unless the manufacturer requests a repeat quality control test. The manufacturer may be present for this second sampling which shall be from the same batch. The manufacturer shall pay for this second quality control test. Should the second sample fail, this invalidates any purchase contract made under this invitation. If the second sample passes, results obtained from the second quality control test shall prevail.

2. **Inspection.** Physical inspection of package, condition, quantity, and labeling shall be made at point of delivery by the purchaser. A SDS shall be submitted with each shipment in accordance with the Florida Workers Right-to-Know Law (Chapter 442, Florida Statutes) and shall be identical to the supplied for initial certification.

**NOTE:** TESTING TO MEET THIS SPECIFICATION DOES NOT INCLUDE AN IN-USE PERFORMANCE TEST. ALL EDUCATIONAL AGENCIES SHOULD CONSIDER IN-USE PERFORMANCE TEST BEFORE PURCHASING THIS PRODUCT.

ORIGINAL CC -5.0 – APPROVED ON MARCH 19, 2010

_____________________________________________________

PRESIDENT FLORIDA SCHOOL PLANT MANAGEMENT ASSOCIATION

CHAIR FSPMA CUSTODIAL/FOOD SERVICE CHEMICAL SPECIFICATION COMMITTEE