

## **HAND CLEANERS / HAND SOAPS (GS-41 / CCD-104) STANDARD**

To be approved for the OGS green hand soaps product list, hand cleaners must demonstrate environmental leadership throughout their life-cycle and meet requirements for:

- performance;
- limited toxicity for aquatic and other organisms;
- biodegradability;
- limits on ingredients that are considered likely to contribute to specific environmental and health impacts (e.g., indoor air quality, ground-level ozone-formation); and
- limited waste and resource use.

Products must be certified under the Green Seal and the Environmental Choice Program or demonstrated to meet the following requirements:

### **Product Specific Requirements**

To be approved for the OGS green cleaning product list, the hand cleaner / hand soap product must:

- (a) using a fixed, repeatable procedure, demonstrate efficacy against a nationally recognized conventional product showing equivalent or better performance. The testing protocol should include, at a minimum: cleaning ability, lathering/rinsing, and skin condition after use. A standard soil shall be used and conclusions should be derived from at least six separate samples. All results, a summary of conclusions and a description of how any panelists are chosen shall be submitted;
- (b) not be a skin sensitizer as tested by OECD Guidelines for Testing Chemicals, Section 406, Buehler (1994), or Magnusson and Kligman (1969) or other peer-reviewed or standard test methods. The product shall not be considered a sensitizer under the following scenarios:
  - if test data shows that the whole-product is not a skin sensitizer,
  - if test data shows that each ingredient present at or above a concentration of 0.1% is not a skin sensitizer, or
  - if test data shows that any known skin sensitizers are non-sensitizing when present at 0.1% or greater in the product;
- (c) not be a skin irritant as tested by OECD Guidelines for Testing Chemicals, Section 404 or other peer-reviewed or standard test methods. The product shall not be considered a skin irritant under the following scenarios:
  - if test data shows that the whole-product is not a skin irritant,
  - if test data shows that each ingredient present at or above a concentration of 5% is not a skin irritant, or
  - if test data shows that any known skin irritants are non irritating when present at 5% or greater in the product;
- (d) be accompanied by detailed instructions for proper use to maximize product performance and minimize waste;
- (e) not be packaged in bag in box packaging;

- (f) be packaged in recyclable packaging. An exception shall be made for lightweight flexible packaging (e.g., pouches or bags) that represents at least 20% reduction in material use when compared with rigid packaging;
- (g) as demonstrated by the due diligence of the manufacturer, efforts have been made to ensure packaging with post-consumer recycled content;
- (h) make no antibacterial, disinfecting, antiseptic or sanitizing product claims;
- (i) not be formulated or manufactured with phosphates;
- (j) not be formulated or manufactured with NTA;
- (k) not be formulated or manufactured with EDTA;
- (l) not be formulated or manufactured with APEOs;
- (m) not be formulated or manufactured with halogenated organic solvents;
- (n) not be formulated or manufactured with butoxy-ethanol;
- (o) declare any fragrances on the product label and on material safety data sheets;
- (p) any fragrances used shall have been produced or handled following the code of practice of the International Fragrance Association;
- (q) if formulated or manufactured with dyes, be formulated with only food grade dyes;
- (r) not contain volatile organic compounds in excess of the limits expressed in the table below as measured by EPA Method 24-24A, 40 C.F.R., Part 60, Appendix A (1991), or Method 18,48 Federal Register 48, no. 202, October 18, 1983, or Method 1400 NIOSH Manual of Analytical Methods, Volume 1, February 1984, or Environmental Protection Agency Method 8240 GC/MS Method for Volatile Organics, September 1986, or California Air Resources Board Method 310; or as demonstrated through calculation from records of the amounts of constituents used to make the product.

Institutional Hand Cleaners	Industrial Heavy Duty Hand Cleaners
1%	8%

- (s) not be formulated or manufactured with any chemicals that are included in the International Agency for Research on Cancer (IARC) lists for proven (Group 1), probable (Group 2A), or possible (Group 2B) carcinogens;
- (t) be readily biodegradable as determined by whole formulation testing In lieu of such data, evidence on the ready biodegradability of each ingredient will be accepted if consistent tests have been applied for each ingredient; and
- (u) based on standard use of the product, not be toxic to aquatic life defined as IC50 > 1000 mg/L as measured by whole formulation short-term sensitive toxicity test performed on the bacteria *Photobacterium phosphoreum*. Aquatic toxicity shall be measured by one of the following test methods: Biological Test Method: Toxicity Test Using Luminescent Bacteria (*Photobacterium phosphoreum*), Report EPS 1/RM/24, November 1992, Environment Canada, ASTM D5660-96 or ISO 11348.