

A-A-279
June 14, 1983

COMMERCIAL ITEM DESCRIPTION

HAND CLEANER (WATERLESS: CREAM FORM: REGULAR AND ANTIMICROBIAL)

The General Services Administration has authorized the use of this commercial item description in preference to Federal Specification P-H-31, class 2, grades A & B.

This description covers cream waterless hand cleaner for use in removing grease and industrial soils from the hands, grade A, regular and grade B, antimicrobial.

Salient characteristics:

The hand cleaner shall be an odorless or mildly scented cream. It shall not smell rancid or have odors characteristics of ammonia or kerosene.

The hand cleaner shall not irritate unabraded skin when used as directed on the container.

pH. The pH of a 5 percent by weight suspension of the hand cleaner in distilled water shall be 4.5-10.3.

Free alkali. The hand cleaner shall contain no more than 0.1 percent by weight free alkali as NaOH, see ASTM D 820 sections 7 and 8.

Heat stability. During heating at 38° C for 72 hours, the hand cleaner shall not separate, change color or turn rancid.

Freeze-thaw stability. During three cycles of freezing at -10° C for 16 hours and thawing at 22° C for 8 hours, the hand cleaner shall not separate into components.

Performance. Within 120 seconds 2-1/2 g of hand cleaner shall suspend and completely remove from the palms of the hands a thin, uniform layer of asphalt (see Note 2) 30 mm in diameter, which has been applied to the palm of each hand. (Form the asphalt into a rod, dip in Stoddard solvent and apply to palm).

Viscosity. The hand cleaner shall have a viscosity of not less than 400,000 centipose at 20° C at the time of acceptance by the Government (see Note 3).

Antimicrobial activity. When antimicrobial hand cleaner is specified, (grade B), a 25 percent by weight suspension of the hand cleaner in distilled water shall inhibit the growth of *Staphylococcus aureus* (ATCC 6538), *Salmonella typhi* (ATCC 6539) and *Trichophyton mentagrophytes* (ATCC 9533). See "Disinfection, Sterilization and Preservation" by Seymore S. Block, Second Edition, 1977, Lea and Febiger; pp 95-96 "Agar Cup-Plate Method for Bacteriostatic Activity" and p 142 "Seeded Agar-Cup Plate Method for Fungistatic Activity".

Compatibility with dispenser. When specified in the contract, the container of hand cleaner shall fit and operate in DL dispenser 90-902, SBS dispenser C-30 or similar size dispensers.

The hand cleaner shall comply with the Federal Food, Drug and Cosmetic Act and regulations published under the Act (21 CFR 1 Regulations for the Enforcement of the Federal Food, Drug and Cosmetic Act).

The issue of ASTM D 820 and 21 CFR 1 Regulations in effect on the date of the solicitation shall be used to determine compliance with these requirements.

Preservation, packaging, labeling, and marking. The preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

Note 1. Purchasers should specify: The net weight of the containers of hand cleaner required; whether antimicrobial hand cleaner is required; and whether the containers must fit a particular dispenser.

Note 2. The asphalt soiling medium shall be a commercial petroleum asphalt, having the following characteristics.

Softening point (ASTM Method D 36) °F	170 to 195
Penetration (ASTM Method D 5) at 77° F	25 to 85
Solubility in carbon tetrachloride, minimum percent	98

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Note 3. Viscosity determination. Fill a 600 cc low form Griffin beaker with the cream and one of the combinations of Brookfield viscometer model, speed and spindle listed below, determine the viscosity at 25° C.

<u>MODEL</u>	<u>SPEED</u>	<u>SPINDLE</u>
RVT	2.5 rpm	T-E
RVT	1.0 rpm	T-D
RVF	2.0 rpm	T-D
RVF	2.0 rpm	T-E

ASTM standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

Copies of CFR Regulations are available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

MILITARY INTERESTS:

DoD has waived coordination on this commercial item description until further notice.

CIVIL AGENCY COORDINATING ACTIVITIES:

GPO
GSA - FSS, PBO
HHS - FDA
INT - MIN
VA - OSS

PREPARING ACTIVITY:

GSA - FSS