1. SCOPE: The material desired under this Standard is a cream type waterless hand cleaner.

2. APPLICATION: This material is used to remove soils such as oil, grease, asphalt, paint, printing ink and creosote when rubbed between the hands and wiped off with a towel.

3. REQUIREMENTS:

3.1 MATERIAL: The detergents, emulsifiers, solvent, and skin conditioning materials used in the manufacture of hand cleaner shall be commercial grade or superior. The finished product with or without antiseptic chemicals shall be suitable for use on the human skin, as demonstrated by shop trial.

3.2 FORM AND CONSISTENCY: The hand cleaner shall be a high quality cream or paste suitable for dispensing from crank-type and piston-type equipment.

3.3 COLOR: The material shall be white or cream colored.

3.4 ODOR: The cleaner shall be free from objectionable odor and shall not leave an objectionable odor on the skin after use.

3.5 STABILITY: The hand cleaner shall remain smooth and homogenous, show no separation, rancidity or loss of effectiveness and be free of objectionable odors after exposure to the following temperature changes in issue containers:

A. 16 hours at 50 C +/- 2 C
B. 16 hours at 0 C +/- 2 C

It shall not discolor, solidify, liquefy, disintegrate, become rancid or otherwise deteriorate under normal conditions of storage or shipment, or for a period of at least six months from date of delivery when stored in a dry storage area at ambient room temperatures.

3.6 SKIN EFFECTS: The cleaner shall have no drying, irritating, chapping or other detrimental action on the normal skin. Following use, the hands shall be left clean, soft, comfortable and free from sticky or greasy residue. The supplier, if so requested, should be prepared to submit qualified dermatological evidence to this requirement.

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3.7	pH VALUE (5% SOLUTION): (Test Method ASTM E 70)	5.0 min.	9.0 max.
3.8	SPECIFY GRAVITY: (Test Method ASTM D 70)	0.85 min.	1.15 max.
3.9	FLASH POINT: (Test Method ASTM D 93)	40 C min.	

3.10 EXCLUDED MATERIALS: Alkaline salts, amines, ammonia, bleaching agents, chlorinated solvents, free alkali, mineral acids, mineral abrasives, or nitrobenzol, shall not be used in the formulation.

4. STANDARD PARAGRAPHS: The following standard paragraphs as defined in Manufacturing Standard MBX, are herewith made a part of this standard: C1, P1, P2, P3, R1, R2.

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