

SECTION C

This document covers hand cleaner for use by the Department of Defense as a component of operational rations.

C-1 ITEM DESCRIPTION

PACKAGING REQUIREMENTS AND QUALITY ASSURANCE PROVISIONS FOR CID A-A-461B, HAND CLEANER (PRE-MOISTENED TOWELETTE IN PACKET)

Type.

Type II. Hand Cleaner - Unscented and water-based.

C-2 PERFORMANCE REQUIREMENTS

A. Product standard. A sample shall be subjected to first article or product demonstration model inspection, as applicable, in accordance with the tests and inspections of Section E of this Packaging Requirements and Quality Assurance Provisions document.

B. Overall appearance. The finished product shall be equal to or better than the approved product standard in overall appearance.

SECTION D

D-1 PACKAGING

A. Packaging. The saturated and folded towel shall be packaged into a packet. The packet shall be made from a heat sealable barrier material, one layer of which is a minimum of 0.0035 inch thick aluminum foil. The exterior color of the packet shall be white, dull yellow, or light brown. All four edges of the packet shall be heat sealed with seals not less than 1/8 inch wide. The sealed packet shall not leak when tested in accordance with E-6, A, 2. There shall be no crushed, misshapen or unclean packets.

D-2 LABELING

A. Packet. Each packet shall be clearly printed or stamped, in a manner that does not damage the item, with permanent black ink or any other dark contrasting color that is free of carcinogenic elements. The information may be located anywhere on the packet (in one complete print), except the closure seal area. The label shall contain the following information:

Name of product (letters not less than 1/8 inch high)
Contractor's name and address

D-3 PACKING

A. Packing for shipment to ration assembler. Not more than 40 pounds of product shall be packed in a fiberboard shipping container constructed in accordance with style RSC-L, class domestic, variety SW, grade 200 of ASTM D 5118, Standard Practice for Fabrication of Fiberboard Shipping Boxes. Each container shall be securely closed in accordance with ASTM D 1974, Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Shipping Containers.

D-4 MARKING

A. Shipping containers. Shipping containers shall be marked in accordance with DPSC Form 3556, Marking Instructions for Shipping Cases, Sacks and Palletized/Containerized Loads of Perishable and Semiperishable Subsistence.

SECTION E INSPECTION AND ACCEPTANCE

The following quality assurance criteria, utilizing ANSI/ASQC Z1.4-1993, Sampling Procedures and Tables for Inspection by Attributes, are required. When required, the manufacturer shall provide the certificate(s) of conformance to the appropriate inspection activity. Certificate(s) of conformance not provided shall be cause for rejection of the lot.

A. Definitions.

(1) Critical defect. A critical defect is a defect that judgment and experience indicate would result in hazardous or unsafe conditions for individuals using, maintaining, or depending on the item; or a defect that judgment and experience indicate is likely to prevent the performance of the major end item, i.e., the consumption of the ration.

(2) Major defect. A major defect is a defect, other than critical, that is likely to result in failure, or to reduce materially the usability of the unit of product for its intended purpose.

(3) Minor defect. A minor defect is a defect that is not likely to reduce materially the usability of the unit of product for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the unit.

B. Classification of inspections. The inspection requirements specified herein are classified as follows:

(1) Product standard inspection. The first article or product demonstration model shall be inspected in accordance with the provisions of this document and evaluated for overall appearance. Any failure to conform to the performance requirements or any appearance failure shall be cause for rejection of the lot. The approved first article or product demonstration model shall be used as the product standard for periodic review evaluations. DSCP shall select sample units during production of contracts and submit them to the following address for evaluation:

US Army Soldier & Biological Chemical Command
Soldiers System Ctr., Natick Soldier Center
Attn: AMSSB-RCF-F(N)
15 Kansas Street
Natick, MA 01760-5018

Six (6) sample units of each item produced shall be randomly selected from that one production lot. The six (6) sample units shall be shipped to Natick within two (2) working days upon completion of all inspection requirements. The sample units will be evaluated for the characteristics of appearance, physical attributes and overall quality.

(2) Conformance inspection. Conformance inspection shall include the product examination cited in this section.

E-5 QUALITY ASSURANCE PROVISIONS (PRODUCT)

A. Product examination. The finished product shall be examined for compliance with the performance requirements specified in A-A-461B and Section C of this Packaging Requirements and Quality Assurance Provisions document utilizing the double sampling plans indicated in ANSI/ASQC Z1.4-1993. The lot size shall be expressed in packets. The sample unit shall be the contents of one packet. The inspection level shall be S-3 and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 1.5 for major defects and 4.0 for minor defects. Defects and defect classifications are listed in Table I.

TABLE I. Product defects 1/ 2/

Category		Defect
<u>Major</u>	<u>Minor</u>	
101		Type II hand cleaner not unscented and water-based.
102		Not clean.
103		Cleansing solution omitted.
104		Towelette does not clean palm of hand.
105		Towelette shreds or pills.
106		Towelette causes irritation to skin.
	201	Not creped.
	202	Not white.
	203	Not folded neatly.
	204	Basis weight of paper less than 23 pounds (24 x 36 - 500).
	205	Towelette not 40 square inches or larger.
	206	Less than 2.3 grams of cleansing solution.
	207	pH not 5.0 to 9.0 units.
	208	Specific gravity not 0.970 to 0.995.

1/ The presence of any foreign material, for example, dirt, insect parts, hair, wood, glass, metal, or mold, or the presence of any foreign odors shall be cause for rejection of the lot.

2/ Finished product not equal to or better than the approved product standard in overall appearance shall be cause for rejection of the lot.

E-6 QUALITY ASSURANCE PROVISIONS (PACKAGING AND PACKING MATERIALS)

A. Packaging.

(1) Filled and sealed packet examination. The filled and sealed packets shall be examined for the defects listed in table II. The lot size shall be expressed in packets. The sample unit shall be one packet. The inspection level shall be I and the AQL, expressed in terms of defects per hundred units, shall be 0.65 for major defects and 2.5 for minor defects.

TABLE II. Filled and sealed packet defects 1/

Category		Defect
<u>Major</u>	<u>Minor</u>	
101		Tear, hole, or open seal.
102		Unclean. <u>2/</u>
103		Packet has foreign odor.
104		Packet leaks.
105		Seal width less than 1/16 inch. <u>3/</u>
106		Not heat sealed on four sides.
	201	Label missing, incorrect, or illegible.

1/ Any evidence of rodent or insect infestation shall be cause for rejection of the lot

2/ Outer packaging shall be free from foreign matter which is unwholesome, has the potential to cause package damage (for example, glass, metal filings) or generally detracts from the clean appearance of the package. The following examples shall not be classified as defects for unclean:

a. Foreign matter which presents no health hazard or potential package damage and which can be readily removed by gently shaking the package or by gently brushing the package with a clean dry cloth.

b. Localized dried product which affects less than 1/8 of the total surface area of one package face, or an aggregate of scattered dried product which affects less than 1/4 of the total surface area of one package face.

3/ The effective closure seal is defined as any uncontaminated, fusion bonded, continuous path, minimum 1/16 inch wide, from side seal to side seal that produces a hermetically sealed pouch.

(2) Packet leakage. The filled and sealed packet shall be examined by submerging the packet in water that is contained in a desiccator or other suitable container and maintaining a vacuum of 15 inches of mercury for at least 30 seconds. A leak is indicated by a steady progression of bubbles. Isolated bubbles caused by entrapped air are not considered a sign of leakage.

B. Packing.

(1) Shipping container and marking examination. The filled and sealed shipping containers shall be examined for the defects listed in table III below. The lot size shall be expressed in shipping containers. The sample unit shall be one shipping container fully packed. The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 4.0 for major defects and 10.0 for total defects.

TABLE III. Shipping container and marking defects

Category		Defect
<u>Major</u>	<u>Minor</u>	
101		Marking omitted, incorrect, illegible, or improper size, location sequence or method of application.
102		Inadequate workmanship. <u>1/</u>
	201	More than 40 pounds of product.

1/ Inadequate workmanship is defined as, but not limited to, incomplete closure of container flaps, loose strapping, inadequate stapling, improper taping, or bulged or distorted container.

SECTION J REFERENCE DOCUMENTS

DSCP FORMS

DPSC FORM 3556 - Marking Instructions for Shipping Cases, Sacks and Palletized/Containerized Loads of Perishable and Semiperishable Subsistence

NON-GOVERNMENTAL STANDARDS

AMERICAN SOCIETY FOR QUALITY CONTROL (ASQC)

ANSI/ASQCZ1.4-1993 - Sampling Procedures and Tables for Inspection by Attributes

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

D 1974 - Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Shipping Containers

D 5118 - Practice for Fabrication of Fiberboard Shipping Boxes