

**METRIC****A-A-20332****December 15, 2000****COMMERCIAL ITEM DESCRIPTION****WATER, DRINKING, EMERGENCY**

The U.S. Department of Agriculture (USDA) has authorized the use of this Commercial Item Description as a replacement for Military Specification MIL-W-44126.

**1. SCOPE.** This Commercial Item Description (CID) covers emergency drinking water, packed in commercially acceptable containers, suitable for use by Federal, State, local governments, and other interested parties; and as a component of operational rations.

**2. PURCHASER NOTES.****2.1 Purchasers *shall specify* the following:**

- Type(s) of emergency drinking water required (Sec. 3).
- When analytical requirements are different than specified (Sec. 6.1).
- When analytical requirements need to be verified (Sec. 6.2).
- Manufacturer's/distributor's certification (Sec. 9.1) or USDA certification (Sec. 9.2).

**2.2 Purchasers *may specify* the following:**

- Packaging requirements other than commercial (Sec. 10).

**3. CLASSIFICATION.** The emergency drinking water shall conform to the following list which shall be specified in the solicitation, contract, or purchase order.

**Types and classes.**

- Type I** - Disposable pouch  
**Type II** - Rigid plastic container  
**Type III** - Other

- Class A** - Thermoprocessed  
**Class B** - Ozone (O<sub>3</sub>)  
**Class C** - Other Methods of Disinfection

**A-A-20332****4. MANUFACTURER'S/DISTRIBUTOR'S NOTES. Manufacturer's/distributor's products shall meet the requirements of the:**

- Salient characteristics (Sec. 5).
- Analytical requirements: *as specified by the purchaser* (Sec. 6).
- Manufacturer's/distributor's product assurance (Sec. 7).
- Regulatory requirements (Sec. 8).
- Quality assurance provisions: *as specified by the purchaser* (Sec. 9).
- Packaging requirements other than commercial: *as specified by the purchaser* (Sec.10).

**5. SALIENT CHARACTERISTICS.**

**5.1 Source.** Water used in processing this product shall originate from a source approved by the Environmental Protection Agency (EPA), or the governmental agency having jurisdiction.

**5.1.1 Treatment.** Any treatment, other than disinfection, to lower the Maximum Contaminant Levels (MCL) shall be in accordance with EPA regulations (40 CFR Part 141 to 149), or the governmental agency having jurisdiction.

**5.1.2 Processing.** The water shall be prepared, processed and packed in establishments meeting the requirements of 21 CFR Part 129 and be processed in accordance with the methods in 21 CFR Part 113. The water shall be processed and manufactured so that all requirements of this standard are met. The water will remain pure and uncontaminated for a period of at least five years in storage at a temperature ranging from -30°C (-22°F) to +65°C (149°F).

**5.2 Class A, Thermoprocessed.** Thermoprocessed filled and sealed containers shall be thermoprocessed until a sterilization assurance given by a value of ( $F_0$ ) of not less than 6.0 has been achieved.

**5.3 Class B, Ozone ( $O_3$ ).** Ozone ( $O_3$ ) shall be added in a manner consistent with 21 CFR Part 184.

**5.4 Class C, Other Methods of Disinfection.** Other methods of disinfection may be used provided the water complies with EPA regulations (40 CFR Parts 141 to 149) and finished product requirements.

**5.5 Finished product.** The finished product shall be palatable, potable, and free from visible sediment, turbidity, and has been processed in accordance with the methods in 21 CFR Part 113. The commercially sterile water shall be properly processed, odorless, colorless, and shall be hermetically

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sealed in a non-contaminating container.

**5.5.1 Flavor and odor.** The emergency drinking water shall be free from objectionable or foreign flavors or odors.

**5.5.2 Color.** The emergency drinking water shall be colorless and have Nephelometer Turbidity Unit (NTU) less than or equal to 1.

**5.6 Age requirement.** Unless otherwise specified in the solicitation, contract, or purchase order, the emergency drinking water shall not be more than 90 days old at time of delivery.

**5.7 Foreign material.** The emergency drinking water shall be clean and free from foreign material including, but not limited to packaging materials, adhesives, organic particles, or artifacts due to processing.

## **6. ANALYTICAL REQUIREMENTS.**

**6.1 Analytical requirements.** Unless otherwise specified in the solicitation, contract, or purchase order, the analytical requirements for the emergency drinking water shall be as follows:

**6.1.1 Commercial sterility.** The finished product shall be prepared and tested for sterilization in accordance with the requirements of the U.S. Pharmacopoeia (USP) under commercial good manufacturing practices as regulated by the Food and Drug Administration (FDA) under the Food and Drug Cosmetic Act. Any sample unit failing to meet the requirements shall be considered a test failure.

**6.1.2 pH.** The pH value of the emergency drinking water shall be not less than 6.0 nor more than 8.0.

**6.1.3 Sodium content.** The sodium content of the emergency drinking water shall be not more than 160 mg/L Sodium (Na).

**6.1.4 Chloride content.** The chloride content of the emergency drinking water shall be not more than 250 mg/L of Chloride (Cl).

**6.2 Product verification.** When USDA verification of analytical requirements is specified in the solicitation, contract, or purchase order, the following procedures will be followed.

**6.2.1 Sampling procedures.** USDA inspection service will select the number of product containers based on USDA inspection service sampling procedures and plans.

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**6.2.2 Composite sample.** Analytical testing shall be performed on a composite sample. The composite sample shall be 3.8 liters (1 gallon) and prepared from subsamples drawn from randomly selected containers. The number of subsamples used to create the composite shall be based on USDA procedures.

**6.3 Analytical testing.** When specified in the solicitation, contract, or purchase order, the analyses shall be made in accordance with the following methods from the Official Methods of Analysis of the AOAC International or as specified below:

<u>Test</u>	<u>Method</u>
Sterility	USP 24 (or current USP), chapter 71 <u>1</u> /
pH	973.41
Sodium	973.54
Chloride	993.30

1/ Standard on Sterility from USP to be used for test method.

**6.4 Test results.** The test result for sterility shall be reported as either meets or fails to meet the requirements of the test for sterility. The test result for pH shall be reported to the nearest 0.1 value. The test results for sodium and chloride shall be reported to the nearest 1 mg/L. Any result not conforming to the finished product requirements shall be cause for rejection of the lot.

**7. MANUFACTURER'S/DISTRIBUTOR'S PRODUCT ASSURANCE.** The manufacturer/distributor shall certify that the emergency drinking water provided shall meet the salient characteristics of this CID, conform to their own specifications, standards, and quality assurance practices, and be the same emergency drinking water offered for sale in the commercial market. The purchaser reserves the right to require proof of conformance.

**8. REGULATORY REQUIREMENTS.** The delivered emergency drinking water shall comply with all applicable Federal, State, and local mandatory requirements and regulations relating to the preparation, packaging, labeling, storage, distribution, and sale of emergency drinking water within the commercial marketplace. Delivered emergency drinking water shall comply with all the applicable EPA regulations. Delivered emergency drinking water shall comply with all applicable provisions of the Federal Food, Drug, and Cosmetic Act and regulations promulgated thereunder.

**9. QUALITY ASSURANCE PROVISIONS.** *Purchaser shall specify 9.1 or 9.2.*

**9.1 Manufacturer's/distributor's certification.** When required in the solicitation, contract, or

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purchase order, the manufacturer/distributor will certify that the finished emergency drinking water distributed meets or exceeds the requirements of this CID.

**9.2 USDA certification.** When required in the solicitation, contract, or purchase order that product quality and acceptability or both be determined, the Processed Products Branch (PPB), Fruit and Vegetable Programs (FVP), AMS, USDA, shall be the certifying program. PPB inspectors shall certify the quality and acceptability of the emergency drinking water in accordance with PPB procedures which include selecting random samples of the packaged emergency drinking water, evaluating the samples for conformance with the salient characteristics of this CID and other contractual requirements, and documenting the findings on official PPB score sheets and/or certificates. In addition, when required in the solicitation, contract, or purchase order, PPB inspectors will examine the emergency drinking water for conformance to the United States Standards for Condition of Food Containers in effect on the date of the solicitation.

**10. PACKAGING.** Preservation, packaging, packing, labeling, and case marking shall be commercial unless otherwise specified in the solicitation, contract, or purchase order.

**11. USDA INSPECTION NOTES.** When Section 9.3 is specified in the solicitation, contract, or purchase order, USDA certification shall include evaluation of the quality and condition of samples of packaged commercially emergency drinking water, and compliance with requirements in the following areas:

- Salient characteristics (Sec. 5).
- Analytical requirements *when specified in the solicitation, contract, or purchase order* (Sec. 6.2). When USDA analytical testing is specified, PPB inspection personnel shall select samples and submit them to the USDA, Science and Technology Programs (S&TP) laboratory for analysis.
- Packaging requirements (Sec. 10 or as specified in the solicitation, contract, or purchase order).

## **12. REFERENCE NOTES.**

**12.1 USDA certification contact.** For USDA certification, contact the **Branch Chief, PPB, FVP, AMS, USDA, STOP 0247, 1400 Independence Avenue, SW, Washington, DC 20250-0247, telephone (202) 720-4693, Fax (202) 690-1527, or via E-mail: [james.rodeheaver@usda.gov](mailto:james.rodeheaver@usda.gov).**

**12.2 Analytical testing and technical information.** For USDA technical information on analytical testing, contact the **Branch Chief, Technical Service Branch, S&TP, AMS, USDA, STOP 0272,**

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1400 Independence Avenue, SW, Washington, DC 20250-0272, telephone (202) 690-0621, or via E-mail: [anita.okrend@usda.gov](mailto:anita.okrend@usda.gov).

### 12.3 Sources of documents.

#### 12.3.1 Sources of information for nongovernmental documents are as follows :

Copies of the Official Methods of Analysis of the AOAC International may be obtained from: **AOAC International, 481 North Frederick Avenue, Suite 500, Gaithersburg, MD 20877, telephone (301) 924-7077. Internet address: <http://www.aoac.org>.**

Copies of Standards on Sterility Tests may be purchased from: **U.S. Pharmacopoeia, 12601 Twinbrook Parkway, Rockville, MD 20852, telephone (800) 822-8772. Internet address: <http://www.usp.org>.**

#### 12.3.2 Sources of information for governmental documents are as follows :

Applicable provisions of the Federal Food, Drug, and Cosmetic Act are contained in 21 CFR Parts 1 to 199. This document may be purchased from: **Superintendent of Documents, ATTN: New Orders, P.O. Box 371954, Pittsburgh, PA 15250-7954. Credit card (MasterCard or Visa) purchases may be made by calling the Superintendent of Documents (202) 512-1803 or on the Internet at: <http://www.nara.gov/fedreg>.**

Copies of this CID and the United States Standards for Condition of Food Containers are available from: **Head, Food Quality Assurance Staff, FVP, AMS, USDA, STOP 0243, 1400 Independence Ave., SW, Washington, DC 20250-0243, telephone (202) 720-9939, Fax (202) 690-0102, via E-mail: [FQAStaff@usda.gov](mailto:FQAStaff@usda.gov) or on the Internet at: <http://www.ams.usda.gov/fv/fvqual.htm>.**

Copies of National Primary Drinking Water Regulations are available from the **Office of Drinking Water, Environmental Protection Agency, WH550D, 401 M Street SW, Washington, DC 20460 or on the Internet at: <http://www.epa.gov/safewater/standards.html>.**

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: **Commander, Defense Supply Center Philadelphia, ATTN: DSCP-HSL, 700 Robbins Avenue, Philadelphia, PA 19111-5092 or Fax (215) 737-2963, or via E-mail: [sagallagher@dscp.dla.mil](mailto:sagallagher@dscp.dla.mil).**

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Military activities should submit requests for copies of this CID to: **Standardization Documents Order Desk, Document Automation and Production Service, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.**

**MILITARY INTERESTS:****Custodians**

Army - GL  
Navy - SA  
Air Force - 35

**CIVIL AGENCY COORDINATING ACTIVITIES:**

DOJ - BOP  
HHS - NIH, IHS, FDA  
USDA - FV  
VA - OSS

**Review Activities**

Army - MD, QM  
Navy - MC

**PREPARING ACTIVITY:**

DLA - SS  
  
(Project No. 8960-P052)

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