

METRIC

A-A-20178A
February 24, 2005
SUPERSEDING
A-A-20178
August 27, 1991

COMMERCIAL ITEM DESCRIPTION

SUGAR SUBSTITUTES, NON-CARBOHYDRATE

The U.S. Department of Agriculture (USDA) has authorized the use of this Commercial Item Description (CID).

1. SCOPE. This CID covers non-carbohydrate sugar substitutes, packed in commercially acceptable containers, suitable for use by the Federal, State, local governments, and other interested parties.

2. PURCHASER NOTES.

2.1 Purchasers *shall specify* the following:

- Type(s) of sugar substitutes desired (Sec. 3).
- Manufacturer's/distributor's certification (Sec. 8.2) or USDA certification (Sec. 8.3).

2.2 Purchasers *may specify* the following:

- Packaging requirements other than commercial (Sec. 9).

3. CLASSIFICATION. The non-carbohydrate sugar substitutes shall conform to the following list which shall be specified in the solicitation, contract, or purchase order.

Types.

Type I - Saccharin (1,2-benzisothiazolin-3-one - 1,1 - dioxide) (C₇H₅NO₃S)
(21 CFR § 180.37)

Type II - Acesulfame-K (Potassium salt of 6-methyl-1-2-3-oxathiazine-4(3H)-one 2,2-dioxide) (21 CFR § 172.800)

Type III - Aspartame (1-methyl N-L- α -aspartyl-L-phenylalanine) (C₁₄H₁₈N₂O₅)
(21CFR § 172.804)

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Type IV - Sucralose (1,6-dichloro-1,6-dideoxy-β-D-fructofuranosyl-4-chloro-4-deoxy-α-D-galactopyranoside) (C₁₂H₁₉C₁₃O₈) (21CFR § 172.831)

Type V - Neotame (N [N-(3,3-Dimethylbutyl)-L-α-aspartyl]-L-phenylalanine-1-methyl ester) (21CFR § 172.829)

Type VI - Other (Specified by purchaser)

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

- Salient characteristics (Sec 5).
- Manufacturer's/distributor's 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 Ingredients. All ingredients, including food grade bulking and anticaking agents, used in the preparation of the sugar substitutes shall be of Food Chemicals Codex purity.

5.2 Processing. The non-carbohydrate sugar substitutes shall be processed in accordance with good manufacturing practices (21 CFR Part 110).

5.3 Finished Product.

5.3.1 Type I, Saccharin. The Type I, Saccharin sugar substitute shall meet the requirements of 21 CFR § 180.37.

5.3.2 Type II, Acesulfame-K. The Type II, Acesulfame-K sugar substitute shall meet the requirements of 21 CFR § 172.800.

5.3.3 Type III, Aspartame. The Type III, Aspartame sugar substitute shall meet the requirements of 21 CFR § 172.804.

5.3.4 Type IV, Sucralose. The Type IV, Sucralose sugar substitute shall meet the requirements of 21 CFR § 172.831.

5.3.5 Type V, Neotame. The Type V, Neotame sugar substitute shall meet the requirements of 21 CFR § 172.829.

5.3.6 Sweetness equivalent. Each package type shall contain and be labeled such that the contents are equal to 2 teaspoonfuls of sugar in sweetness.

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

7. REGULATORY REQUIREMENTS. The delivered non-carbohydrate sugar substitutes shall comply with all applicable Federal and State mandatory requirements and regulations relating to the preparation, packaging, labeling, storage, distribution, and sales of the non-carbohydrate sugar substitutes in the commercial marketplace. Delivered non-carbohydrate sugar substitutes shall comply with all applicable provisions of the Federal Food, Drug, and Cosmetic Act, the Fair Packaging and Labeling Act, and regulations promulgated thereunder.

8. QUALITY ASSURANCE PROVISIONS. *Purchaser shall specify 8.2 or 8.3; purchaser may specify 8.1 with 8.1.1 or 8.1 with 8.1.2.*

8.1 Manufacturer's quality assurance. When required in the solicitation, contract, or purchase order, the product manufacturer shall be required to provide evidence, by certificate, that the manufacturing plant has undertaken one of the following quality assurance measures within 12 months prior to providing a bid, or no later than 10 business days from the date of awarding of the contract. Failure to provide this documentation within the proper time frame may result in the contract being terminated for cause.

8.1.1 Plant systems audit. A plant systems audit (PSA) shall be conducted by USDA, AMS, or other third party auditing service and is required within 12 months prior to the date of the awarding of the contract. *(An AMS PSA verifies the manufacturer's capability to produce products in a clean, sanitary environment in accordance with Title 21 Code of Federal Regulations Part 110 - Current Good Manufacturing Practice in Manufacturing, Packing, or Holding Human Food; and have in place an internal quality assurance program. The AMS PSA determines the manufacturer's ability to produce under this CID, if the products of interest are identified at the time of the PSA.)*

8.1.2 Plant survey. A plant survey shall be conducted by USDA, AMS, or other third party auditing service and is required within 12 months prior to the date of the awarding of the contract. *(An AMS plant survey audit verifies that, at the time of the survey, the manufacturer produces products in a clean, sanitary environment in accordance with Title 21 Code of Federal Regulations Part 110 - Current Good Manufacturing Practice in Manufacturing, Packing, or Holding Human Food.)*

8.2 Manufacturer's/distributor's certification. When required in the solicitation, contract, or purchase order, the manufacturer/distributor will certify that the non-carbohydrate sugar substitutes distributed meets or exceeds the requirements of this CID.

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8.3 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 non-carbohydrate sugar substitutes in accordance with PPB procedures which include selecting random samples of the non-carbohydrate sugar substitutes, 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 non-carbohydrate sugar substitutes for conformance to the United States Standards for Condition of Food Containers in effect on the date of the solicitation.

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

10. USDA INSPECTION NOTES. When Section 8.3 is specified in the solicitation, contract, or purchase order, USDA certification shall include evaluation of the quality and condition of samples of non-carbohydrate sugar substitutes, and compliance with requirements in the following areas:

- Salient characteristics (Sec. 5).
- Packaging requirements (Sec. 9 or as specified in the solicitation, contract, or purchase order).

11. REFERENCE NOTES.

11.1 USDA certification contact. For USDA certification, contact the **Branch Chief, Processed Products Branch (PPB), Fruit and Vegetable Programs (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: terry.bane@usda.gov.**

11.3 Sources of documents.

11.3.1 Source of information for nongovernmental document is as follows:

Copies of the Food Chemicals Codex may be purchased from: **National Academy Press, 500 Fifth Street, NW, Lockbox 285, Washington, DC 20055, telephone (888) 624-8373 or (202) 334-3313, Fax (202) 334-1891. Internet address: <http://www.nap.edu>.**

11.3.2 Sources of information for governmental documents are as follows:

Applicable provisions of: the Fair Packaging and Labeling Act are contained in 16 CFR Parts 500 to 503 and the Federal Food, Drug, and Cosmetic Act are contained in 21 CFR Parts 1 to 199. These documents may be purchased from: **Superintendent of Documents, 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 on (202) 512-1803 or on the Internet at: <http://www.gpoaccess.gov/nara/index.html>.**

Copies of this CID, the United States Standards for Condition of Food Containers, and beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this CID are available from and/or provided to: **Head, Food Quality Assurance Staff, Fruit and Vegetable Programs, AMS, USDA, STOP 0243, 1400 Independence Avenue, SW, Washington, DC 20250-0243, telephone (202) 720-9939, Fax (202) 690-0102, via E-mail: FQASTaff@usda.gov or on the Internet at: <http://www.ams.usda.gov/fv/fvqual.hmt>.**

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:**Military Coordinating Activity**

Army - GL

Custodians

Army - GL
Navy - SA
Air Force - 35

Review Activities

Army - MD, QM
Navy - MC
DLA - SS

CIVIL AGENCY COORDINATING ACTIVITIES:

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

PREPARING ACTIVITY:

USDA - FV

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