

[METRIC]
 A-A-1427C
 December 2, 1993
 Superseding
 A-A-1427B
 February 28, 1992

COMMERCIAL ITEM DESCRIPTION

SODIUM HYPOCHLORITE SOLUTION

The General Services Administration has authorized the use of this commercial item description, for all federal agencies.

1. **Scope and Classification.** This commercial item description covers two grades of sodium hypochlorite solution for use as a bleaching and sanitizing agent.

Grade A - 5.25 percent sodium hypochlorite by weight

Grade B - 12.5 percent sodium hypochlorite by weight.

2. **Salient Characteristics.**

2.1 **Material.** The sodium hypochlorite solution shall be a clear greenish-yellow liquid free from visible sediment or suspended matter and shall meet the following requirements at the time of delivery to the Government and for a period of six months after the date of delivery for Grade A and three months after delivery for Grade B.

2.2 **Physical requirement.** The sodium hypochlorite solution shall meet the requirements of Table I.

Table I. Physical Requirements

Characteristic	Limits	ASTM Test Method
Percent Sodium Hypochlorite by weight		D 2022
Grade A	5.25 - 6.6	
Grade B	12.5 - 15.6	
Specific Gravity (25°C)		D 2111, Method B
Grade A	1.073 - 1.110	
Grade B	1.180 - 1.220	
pH		E 70
Grade A	10.5 - 12.4	
Grade B	12.8 - 13.2	
Free alkali (as NaOH) % by wt.		D 2022
Grade A	0.70 max. allowable	
Grade B	0.50 - 0.80	

DISTRIBUTION STATEMENT: Approved for public release; distribution is unlimited.

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3. Registration and Labeling. The sodium hypochlorite solution shall be registered with the Environmental Protection Agency (EPA)(see "Guidance for the Reregistration of Pesticide Products Containing Sodium and Calcium Hypochlorite Salts as the Active Ingredient".) It shall be labeled in compliance with the most current Regulations for the Enforcement of the Federal Insecticide, Fungicide and Rodenticide Act (40 CFR 162-180) and Occupational Safety and Health Administration (OSHA) regulations (29 CFR 1910.1200).

4. Special Marking.

STORE IN A COOL, DARK PLACE. STORAGE TEMPERATURE NOT TO EXCEED 38°C (100°F). NEVER MIX WITH OTHER CHEMICALS SUCH AS TOILET BOWL CLEANERS OR PRODUCTS CONTAINING VINEGAR OR AMMONIA

5. Material Safety Data sheet. A material safety data sheet (MSDS) shall be submitted in accordance with FED-STD-313 (See Notes).

6. Certification. The contractor shall certify that the product offered meets the salient characteristics of this description and that the product conforms to the producer's own drawing, specifications, standards and quality assurance practices and is the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

7. Packaging, packing and marking. The packaging and packing shall be in accordance with commercial practices acceptable to the government, and shall assure acceptance by common carrier and provide product protection against loss and damage during multiple shipments, handling and storage. The shipping container shall be in compliance with the National Motor Freight Classification and Uniform Freight Classification. Marking shall be as specified in the contract or order.

8. Intended Use. Sodium hypochlorite solution (Grade A) is intended for use as a bleach and disinfectant. Grade B is intended for use in swimming pool chlorination and sanitizing food/dairy equipment. Both grades will decompose rapidly when exposed to heat and light. They should be stored in a cool, dark place and used as soon as possible. The user may find it necessary to reorder frequently in order to assure a continuous supply of fresh solution. Grade B should be used within 30 days of date of delivery. Sodium hypochlorite solution should never be mixed with ammonia, vinegar, or toilet bowl cleaners.

9. Notes.

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

"Guidance for the Reregistration of Pesticide Products Containing Sodium and Calcium Hypochlorite Salts as the Active Ingredient" is available from the EPA Office of Pesticides and Toxic Substances, Washington, DC 20460.

Code of Federal Regulations (CFR) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

FED-STD-313 is available from GSA, Specification Section (3FBP-W), Suite 8100, 470 L'Enfant Plaza, S.W., Washington, DC 20407.

PREPARING ACTIVITY

GSA - FSS