

MIL-S-24521A(SH)
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 SUPERSEDING
 MIL-S-24521(SHIPS)
 2 September 1975
 (See 6.5)

MILITARY SPECIFICATION

SODIUM NITRITE, TECHNICAL

This specification is approved for use within the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.2 Scope. This specification covers technical grade sodium nitrite for use as an anti-corrosive agent in boiler preparation.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATIONS

FEDERAL

PPP-D-723 - Drums, Fiber.
 PPP-C-2020 - Chemicals, Liquid, Dry and Paste: Packaging of.

STANDARDS

FEDERAL

FED-STD-313 - Material Safety Data Sheet Preparation and Submission of.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 5523, Department of the Navy, Washington, DC 20362-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 6810

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MIL-S-24521A(SH)

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-147 - Palletized Unit Loads.

2.1.2 Other Government documents. The following other Government documents forms a part of this specification to the extent specified herein. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

DEPARTMENT OF TRANSPORTATION (DOT)

- Code of Federal Regulations (CFR)
- 49 CFR, Parts 170-179 - Hazardous Material Regulations.

DEPARTMENT OF LABOR

- Occupational Safety and Health Administration (OSHA)
- Code of Federal Regulations (CFR)
- 29 CFR, Part 1910.1200 - Hazard Communication Standard.

(The Code of Federal Regulations (CFR) and the Federal Register (FR) are for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. When indicated, reprints of certain regulations may be obtained from the Federal agency responsible for issuance thereof.)

(Copies of specifications, standards and other Government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted shall be those listed in the issue of the DoDISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS shall be the issue of the nongovernment documents which is current on the date of the solicitation.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- D 1193 - Standard Specification for Reagent Water. (DoD adopted)
- D 1293 - Standard Test Methods for pH of Water and Waste Water. (DoD adopted)

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

AMERICAN CHEMICAL SOCIETY (ACS)

- Specifications - Reagent Chemicals.

(Application for copies should be addressed to Applied Publications, American Chemical Society, 1155 16th Street, NW, Washington, DC 20006.)

MIL-S-24521A(SH)

(Nongovernment standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Material. Sodium nitrite shall be in the form of anhydrous crystals and shall conform to the formula, NaNO_2 .

3.2 Chemical requirements. The sodium nitrite shall conform to the chemical requirements specified in table I when tested as specified in 4.3.

TABLE I. Chemical requirements.

| Constituent or property | Value | Percent by weight | Test paragraph |
|---|-----------|-------------------|----------------|
| Sodium nitrite | ---- | 97.0 (minimum) | 4.3.3 |
| Sulfates (as Na_2SO_4) | ---- | 0.2 (maximum) | 4.3.4 |
| Chlorides (as NaCl , | ---- | 0.2 (maximum) | 4.3.5 |
| Insoluble matter | ---- | 0.5 (maximum) | 4.3.2 |
| pH value | 8 ± 1 | ---- | 4.3.6 |

3.3 Material safety data sheet. The contracting activity shall be provided a material safety data sheet (MSDS) at the time of contract award. The MSDS shall be provided in accordance with the requirements of FED-STD-313 and 29 CFR 1910.1200. When FED-STD-313 is at variance with the CFR, 29 CFR 1910.1200 shall take precedence, modify, and supplement FED-STD-313.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve