

NOT MEASUREMENT SENSITIVE

A-A-19D
28 July 2009
SUPERSEDING
A-A-19C
17 October 1997

COMMERCIAL ITEM DESCRIPTION

SCALE REMOVING COMPOUND (POWDER, SULFAMIC ACID)

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

1. **SCOPE.** This CID covers a powder form scale removing compound, hereafter referred to as “compound”, intended for removing scale deposits normally found in salt water evaporators, fresh water cooling and distribution systems, and water side scale found in heat transfer units. This compound can be used for removing scale deposits normally found in commercial dishwashing machines.

2. SALIENT CHARACTERISTICS.

2.1 **Materials.** Unless otherwise specified herein, materials shall be in accordance with the manufacturer’s material specifications. The compound shall be a clean, water-soluble, uniform free-flowing (lump-free) powder, and shall contain an anti-corrosion agent, an anti-caking agent, and a dye and dye stabilizer to indicate when the compound is spent during the descaling process. Metanil yellow is one acceptable dye.

2.1.1 **Sulfamic acid.** The compound shall contain not less than 90 percent (%) sulfamic acid by weight when determined in accordance with the USP XX titration method.

2.1.2 **Hydrogen-ion concentration (pH).** The compound shall have a pH of not more than 1.2 in a 1% solution in distilled water when determined in accordance with ASTM E70.

2.1.3 **Excluded ingredients.** The compound shall not contain sulfuric acid or organic solvents.

2.2 **Corrosive effects on steel.** The compound, in a 1% distilled aqueous solution, shall have a corrosive effect on steel of not more than 0.15% loss of mass on 2 inch by 2 inch

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Defense Supply Center Richmond, ATTN: DSCR-VEB, 8000 Jefferson Davis Highway, Richmond, VA 23297-5616 or by e-mail to STDZNMGT@DLA.MIL . Since contact information can change, you may verify the currency of this address information using the ASSIST database at http://assist.daps.dla.mil .

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by 0.035 inch thick (51mm X 51mm X 0.89mm thick) coupons of hot rolled steel after a 24 hour period of immersion in the solution.

2.3 Nonvolatile matter. The compound shall have a nonvolatile matter content of not less than 30.0% at 221°F (105°C) when determined in accordance with ASTM D2834.

2.4 Identification and markings. Identification and markings shall be permanent and legible and shall include, as a minimum, the manufacturer's identification code (CAGE) and labeling with instructions for use.

3. REGULATORY REQUIREMENTS.

3.1 Hazardous materials. The compound shall meet all applicable Federal codes and regulations concerning hazardous materials, including package marking.

4. PRODUCT CONFORMANCE PROVISIONS.

4.1 Product conformance. The product shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

4.2 Market acceptability. The compound shall have been sold previously to the Government or to the commercial market in order to qualify for acceptability under this CID

5. PACKAGING. Preservation, packaging, and marking shall be as specified in the contract or order (see 6.2).

6. NOTES.

(This section contains information of a general or explanatory nature that may be helpful but is not mandatory.)

6.1 Referenced documents.

American Society for Testing and Materials (ASTM)	
D2834 –	Standard Test Method for Nonvolatile Matter (Total Solids) in Water-Emulsion Floor Polishes, Solvent-Based Floor Polishes, and Polymer Emulsion Floor Polishes
E70 –	Standard Test Method for pH of Aqueous Solutions with Glass Electrode AASHTO T200

Copies of these documents can be obtained online at <http://www.astm.org> or from American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

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United States Pharmacopeial (USP)
USP XX

Copies of this document can be obtained online at <http://www.usp.org> or from United States Pharmacopeial Convention, Inc., 12601Twinbrook Parkway, Rockville MD 20852-1790.

6.2 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this CID.
- b. The specific issue of individual documents referenced, if required.
- c. Packing requirements.

6.3 Cross-reference data. Scale removing compound conforming to this CID is interchangeable/substitutable with scale removing compound conforming to P-S-120B, type I, dated April 8, 1977 (cancelled October 17, 1997 with supersession by this document).

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:
GSA-FAS

Custodian:
DLA – GS

Preparing Activity:
DLA – GS3

(Project 6850-2009-008)

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