

METRIC

A-A-59966

June 17, 2016

## COMMERCIAL ITEM DESCRIPTION

## DESCALER, DISHWASHER

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

1. **SCOPE.** This commercial item description (CID) covers a scale removing compound intended for removing scale deposits from environmental surfaces, commercial dishwashing machines, and boiler coils.

2. **SALIENT CHARACTERISTICS.**

2.1 **General.** The descaler shall be free of sediments and suspended particles, and shall contain a wetting agent. If the at-use diluted product is corrosive, the descaler shall contain a corrosion inhibiting agent.

2.2 **Prohibited materials.** The descaler shall not contain any materials above the threshold for trace amount that have a severity category of either catastrophic or critical in the prohibited and restricted chemicals tables in the NAVSEA List of Targeted Chemicals (N-LTC) appendix of T9070-AL-DPC-020/077-2, NAVSEA Hazardous Material Avoidance Process. The threshold for trace amount is defined as less than 1 percent for non-carcinogenic compounds and less than 0.1 percent for carcinogenic compounds.

2.3 **pH.** The pH of an at use-dilution shall be a maximum of 2.0 when tested in accordance with ASTM E70.

2.4 **Flash point.** The flash point shall be greater than 93.3 °C (200 °F) when tested in accordance with ASTM D56.

2.5 **Eutrophication and phosphate.** The descaler shall comply with the U.S. Environmental Protection Agency (EPA) Safer Choice Standard eutrophication and phosphate criteria.

2.6 **Aquatic toxicity.** The descaler, when used as directed on the label in a use-dilution solution, shall not be toxic to aquatic life in accordance with the United Nations Economic Commission for Europe (UNECE) Globally Harmonized System of Classification and Labelling of Chemicals (GHS) criteria for acute and chronic aquatic toxicity. More specifically, the descaler at use-dilution shall not have an acute toxicity within GHS Categories 1 and 2 for short-term (acute) aquatic hazard, and shall not have a chronic toxicity within GHS Categories 1 and 2 for long-term aquatic hazard.

2.7 **Surface tension.** The descaler shall have a surface tension not greater than 44.0 dynes per centimeter (8.08 X 10<sup>-3</sup> poundals per inch) when measured in accordance with ASTM D1331, or other equivalent or comparable test methods, using a sample at 25 °C (77 °F) in a 1 percent aqueous solution.

2.8 **Corrosive effect on steel.** The descaler shall have a corrosive effect on steel of not more than 0.15 percent loss of mass on 51 millimeters by 51 millimeters by 0.89 millimeter (2 inches by 2 inches by 0.035 inch) thick coupons of hot rolled steel after a 24-hour period of immersion in the compound, or shall have a corrosive effect on steel based on other equivalent or comparable test methods.

2.9 **Scale dissolving ability.** The descaler, at usage concentration, shall dissolve 85 to 90 percent of 1 gram of calcium carbonate powder in 100 milliliters of compound at 25 °C (77 °F) in less than 30 minutes, or shall dissolve scale based on other equivalent or comparable test methods.

2.10 **Foaming.** The descaler shall not exhibit foaming at temperatures above 38 °C (100 °F).

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Commander, Naval Sea Systems Command, ATTN: SEA 05S, 1333 Isaac Hull Avenue, SE, Stop 5160, Washington Navy Yard DC 20376-5160 or emailed to [CommandStandards@navy.mil](mailto:CommandStandards@navy.mil), with the subject line "Document Comment". Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil>.

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3. **REGULATORY REQUIREMENTS.** The offeror/contractor is encouraged to use recovered materials or biobased materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4. **PRODUCT CONFORMANCE PROVISIONS.** The products provided 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 marketplace. The government reserves the right to require proof of such conformance.

5. **PACKAGING.** Preservation, packing, and marking shall be as specified in the contract or order.

6. **NOTES.**

6.1 Source of documents.

6.1.1 ASTM International. ASTM standards are available from ASTM International, 100 Barr Harbor Dr., P.O. Box C700, West Conshohocken, PA 19428-2959 or online at [www.astm.org](http://www.astm.org).

6.1.2 EPA. The U.S. EPA Safer Choice may be obtained from the Environmental Protection Agency, Ariel Rios Building, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460 or online at <https://www.epa.gov/saferchoice/standard>.

6.1.3 FAR. The FAR may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402 or online at <https://www.acquisition.gov/far>.

6.1.4 GHS. The UNECE GHS may be obtained online at [http://www.unece.org/trans/danger/publi/ghs/ghs\\_rev06/06files\\_e.html](http://www.unece.org/trans/danger/publi/ghs/ghs_rev06/06files_e.html).

6.1.5 Naval Sea Systems Command (NAVSEA) Publications. Copies of T9070-AL-DPC-020/077-2 are available online via Technical Data Management Information System (TDMIS) at <https://mercury.tdmis.navy.mil/> by searching for the document number without the suffix. Refer questions, inquiries, or problems to: DSN 296-0669, Commercial (805) 228-0669. T9070-AL-DPC-020/077-2 is available for ordering (hard copy) via the Naval Logistics Library <https://nll.ahf.nmci.navy.mil>. For questions regarding the NLL, contact the NLL Customer Service at [nllhelpdesk@navy.mil](mailto:nllhelpdesk@navy.mil), (866) 817-3130, or (215) 697-2626/DSN 442-2626.

6.2 Ordering data. The contract or order should specify the following:

- a. CID document number and revision letter.
- b. Quantity required.
- c. Product conformance provisions.
- d. Packaging requirements.

6.3 Key words.

Scale remover

Scale removing compound

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MILITARY INTERESTS:

Custodians:

Army – MI

Navy – SH

Review Activities:

Army – AV, GL

Navy – AS, CG, MC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FAS

Preparing Activity:

Navy – SH

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