

NOT MEASUREMENT  
SENSITIVE

MIL-L-23398D

AMENDMENT 2

18 January 1994

SUPERSEDING

AMENDMENT 1

24 SEPTEMBER 1990

MILITARY SPECIFICATION

LUBRICANT, SOLID FILM, AIR-CURED, CORROSION INHIBITING,  
NATO CODE NUMBER S-749

This amendment forms a part of MIL-L-23398D,  
dated 20 November 1985, and is approved for use by all  
Departments and Agencies of the Department of Defense.

Page 1

2.1.1: Delete paragraph and substitute:

"2.1.1 Specifications and standards. The following specifications and standards form a part of this document to the extent specified herein Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS), and supplement thereto, cited in the solicitation (see 6.2)."

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\*2.1.1: Under Specifications, Federal, add:

"O-T-634 - Trichloroethylene, Technical"

\*2.1.1: Under Specifications, Military, delete:

"MIL-T-81533 - Trichloroethane, 1,1,1, (Methyl Chloroform) Inhibited, Vapor Degreasing"

2.1 2: Under Code of Federal Regulations, delete "49 CFR - Transportation", and substitute:

"29 CFR 1910.1200 Occupational Safety and Health  
Standards-Hazard Communications

49 CFR 171-178 Regulations for the Transportation of  
Hazardous Materials."

AMSC N/A

FSC 9150

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2.2: Delete first two sentences of paragraph and substitute the following:

"2.2 Non-Government 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 are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of the documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2)."

2.2: add the following reference document:

"AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI Z129.1 American National Standard for the Precautionary Labeling of Hazardous Industrial Chemicals

(Application for copies should be addressed to the American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018)."

2.2: Under AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), delete "ASTM D270 Sampling of Petroleum Products", and substitute "ASTM D4057 Manual Sampling of Petroleum and Petroleum Products".

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3.2: last sentence, bottom of page, delete in its entirety, and substitute:

"For Type II material, a non-fluorocarbon type, pressure producing agent, approved by the Environmental Protection Agency (EPA), is required to expel the contents of the container, in accordance with the requirements of this specification."

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3.2: delete last sentence of paragraph in its entirety and substitute.

"Both Type I and Type II material shall contain no graphite, powdered metal, carbon black, charcoal or other forms of inorganic carbon (see 4.6.1)."

3.6: delete paragraph in its entirety and substitute:

"3.6 Material safety data sheets. Material safety data sheets (MSDS) shall be prepared and submitted in accordance with FED-STD-313 and shall be in accordance with the requirements of 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. One copy of the MSDS shall accompany the samples being submitted to the qualifying activity for testing (see 4.3.1)."

4.1 delete paragraph in its entirety and substitute:

"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 (examinations and tests) 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 this specification, where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements."

Add as new paragraph 4.1.1:

"4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspections 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 the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of the manufacturing operation, is an acceptable practice to ascertain conformance to requirements; however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material."

4.4.2: third line of paragraph, delete "ASTM D270" and substitute "ASTM D4057".

4.5.3: delete last sentence of paragraph in its entirety and substitute:

"After application of the final coat, the coating shall be permitted to air-cure at ambient laboratory conditions (approximately 25°C (77°F) and approximately 50 percent relative humidity) for a period of 6 hours, prior to testing."

4.6.1: delete paragraph in its entirety and substitute:

"4.6.1 Certification of compliance Unless otherwise specified, no material covered by this specification shall be submitted for acceptance under any contract or purchase order until certification and data have been approved by the procuring activity, ensuring conformance to 3.2 (see 6.6)."

6.1: delete the first full sentence on page, beginning with "This material...", and substitute:

"This lubricant, although intended for air-cure application, may be heat-cured at temperatures up to 120°C (248°F), for up to 1 hour after the coated work-piece has reached the desired temperature."

6.2.1: delete paragraph in its entirety and substitute:

"6.2.1 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification
- b. Issue of DODISS to be cited in the solicitation and, if required, the specific issue of individual documents referenced (see 2.1 and 2.2)
- c. Types and sizes required (see 1.2).
- d. Quantity required
- e. Degree of preservation and packing required (see 5.1 and 5.2)
- f. Any special marking (see 5.3)
- g. Specify if palletization is required (see 5.4).
- h. Specify FAR Clauses 52.223-3."

Renumber paragraph 6.6 as paragraph 6.8.

Add the following, as new paragraph 6.6:

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"6.6 Consideration of data requirements. The following data requirements should be considered when this specification is applied on a contract. The applicable Data Item Description (DID) should be reviewed in conjunction with the specific acquisition to ensure that only essential data is requested/provided and that the DID is tailored to reflect the requirements of the specific acquisition. To ensure correct contractual application of the data requirements, a Contract Data Requirements List (DD Form 1423) must be prepared to obtain the data, except where DoD FAR Supplement 27.475-1 exempts the requirement for a DD Form 1423

\* 

<u>Reference paragraph</u>	<u>DID number</u>	<u>DID title</u>
4 6.1 (Para. 10.2.7 only)	DI-NDTI-80809A	Test/Inspection Reports

The above DID was cleared as of the date of this specification. The current issue of DoD 5010.12-L, Acquisition Management System and Data Requirements Control List (AMSDL), must be researched to ensure that only current, cleared DID's are cited on DD Form 1423."

Add as new paragraph 6.7:

"6.7 Subject term (keyword) listing.

Corrosion preventative  
Friction reduction  
Material safety data sheet  
Qualified products list (QPL)"

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\*Table III, under fluid and specification:

a. Delete: "Trichloroethane MIL-T-81533"  
b. Add: "Trichloroethylene O-T-634"

NOTE: The margins of this amendment are marked with asterisks to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:  
Army - ME  
Navy - AS  
Air Force - 11

Preparing activity  
Navy - AS  
Project No. 9150-1116

Review activities:  
Army - AR, AV, MI, SM, AT  
Defense Nuclear Agency - DS