

[METRIC]
 A-A-3001
 April 16, 1996
 SUPERSEDING
 MMM-A-180C CI B
 August 6, 1979

COMMERCIAL ITEM DESCRIPTION

ADHESIVE, POLYVINYL ACETATE EMULSION, WOOD AND PLASTIC

The General Services Administration has authorized the use of this commercial item description as a replacement for MMM-A-180C Class B, for all Federal Agencies

1 **SCOPE** This commercial item description covers a nonflammable, nontoxic, water based polyvinyl acetate emulsion (also known as "wood glue") that dries clear to form strong bonds for gluing wood joints in products used in normal interior service conditions. It can be used for various types of joints in assembly of wood furniture and for small wood patterns and models.

2 SALIENT CHARACTERISTICS

2.1 The adhesive shall pass the testing requirements of sections 9 and 10 of ASTM D 4317, Polyvinyl Acetate-Based Emulsion Adhesives, Type 3, Dry Use, including the tests and limits given in Table I below. Manufacturer may use tests given in the ASTM document or an equivalent test to verify compliance to these requirements. The tests from ASTM D 4317 will be used in case of dispute.

TABLE I

Characteristic	Minimum	Maximum
Viscosity, cp	2000	9000
Nonvolatile content, %	44	—
pH	4	6

2.2 **Prohibited material** The product shall not contain (other than trace impurity amounts, not to exceed 0.6% liquid wt), any of the following hydrolyzable chlorine derivatives, ethylene based glycol ethers and their acetates, any carcinogen, as defined in 29 CFR 1910.1200, any of the 17 target chemicals on the EPA 33/50 program list, [These chemicals are benzene, cadmium & compounds, carbon tetrachloride, chloroform, chromium & compounds, cyanides, lead & compounds, mercury & compounds, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, nickel & compounds, tetrachloroethylene, toluene, trichloroethane, trichloroethylene, and xylenes], nor any ozone depleting compound [as listed in the Federal Register notice of July 30, 1992 (57 Fed Reg 33753) which include chlorofluorocarbons, halons, carbon tetrachloride, methyl chloroform, and hydrochlorofluorocarbons].

2.3 **Freeze-Thaw Stability** The adhesive shall meet the requirements above after three freeze-thaw cycles in accordance with 10.3.3.7 of ASTM D 4317.

2.4 **Storage Life** The adhesive shall pass the storage life requirement of 10.3.3.8 of ASTM D 4317 after 12 months of storage.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to General Services Administration, Engineering and Commodity Management Division (10FTE), 400 15th St SW, Auburn, WA 98001

FSC 8040

DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited.

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3 QUALITY ASSURANCE PROVISIONS

3.1 Commercial Quality The products provided shall 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 prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

4 PACKAGING

The packaging and packing shall be as specified in the contract or order

5 NOTES

5.1 Intended use This product corresponds to Class B of MMM-A-180. It is for assembly gluing of wood items which are placed or stored in normal indoor temperature service conditions where the relative humidity is not high and does not fluctuate between wide limits. This product can be used for such joints as dowel, mortise-tenon, lock and finger in the assembly of wood furniture. It is also suitable for fabricating small wood patterns and models.

5.2 Addresses for obtaining copies of referenced documents

Federal Regulations

29 CFR Part 1910.1200

The code of Federal Regulations (CFR) is for sale mail order by the Superintendent of Documents, ATTN: New Order, PO Box 371954, Pittsburgh, PA 15250-7954

ASTM Methods

ASTM D 4317 - Polyvinyl Acetate-based Emulsion Adhesives

ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. The issue of the ASTM test methods in effect on the date of the solicitation shall be used to determine compliance with these requirements.

EPA 33/50 Program Information on the EPA 33/50 program is available from US EPA 33/50 Program (TS-792A), 401 M Street SW, Washington, DC 20460

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MILITARY INTEREST

COORDINATING ACTIVITY

Army - MR, Navy - AS
Air Force - 99

REVIEW ACTIVITIES

Army - AR, MI
Air Force - 84

USER ACTIVITIES

Army - AT, Navy

CIVIL AGENCY INTEREST

COORDINATING ACTIVITIES

GPO

PREPARING ACTIVITY

GSA-FSS