FILE NAME: Warning Labels (WL)

DATE: 1954

DOC#: WL017

DOCUMENT DESCRIPTION: Military Standard 129A

9999911 0436912 522

MIL-STD-129A
8 February 1954

SUPERSEDING
MIL-STD-129
9 August 1951

MILITARY STANDARD

MARKING FOR SHIPMENT AND STORAGE

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1954

4-29 EXHIBIT 8
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in a waterproof envelope and securely attached in a protected location to the number one container of the shipment in a manner to facilitate easy access for inspection purposes. The words "SHIPPING DOCUMENTS" or, when applicable, "BILL OF LADING" shall be marked on the outside face of the waterproof envelope with black waterproof ink or marking crayon.

6.8 PRECAUTIONARY REGULATION, AND STATUTE MARKING. Special handling instructions and warnings shall be shown as required by the Interstate Commerce Commission regulations, U. S. Coast Guard regulations, Civil Aeronautics Board publications and by statute regardless of destination of shipment and shall include any interstate shipment.

6.9 MUTUAL DEFENSE ASSISTANCE PROGRAM (MDAP) SHIPMENTS. Shipments prepared for overseas delivery to foreign countries under the Mutual Defense Assistance Program shall be stenciled, labeled, or otherwise prominently and clearly marked on two sides with a shield including the words "FROM USA FOR MUTUAL DEFENSE" (see fig. 20). The size of the shield used shall be proportionate to the size of the container to which it is affixed but shall not be less than 3½ by 3½ inches. At least one shield shall appear on small containers.

9999911 0437056 503

MIL-STD-129B
10 April 1957

SUPERSEDING
MIL-STD-129A
8 February 1954

MILITARY STANDARD

MARKING FOR SHIPMENT AND STORAGE

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1957

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2. DEFINITIONS AND MARKING TERMS

2.1 DEFINITIONS

2.1.1 *Interior packages.*

2.1.1.1 *Unit package.* The first tie, wrap, or container applied to a single item or a multiple thereof or a group of items of a single stock number preserved or unpreserved, which involves a complete or identified package.

2.1.1.2 *Intermediate package.* An interior container which contains two or more unit packages of identical items.

2.1.2 *Unpackaged items.* Items not packaged that are to be placed in a shipping container.

2.1.3 *Loose or unpacked items.* Items which do not require a shipping container.

2.1.4 *Shipping container.* Any exterior container which may be used for shipment.

2.1.4.1 *Bale.* In conformance with Specification MIL-B-3149, Baling of clothing and Equipage.

2.1.4.2 *Noncompressed bale.* Same as bale except that no compression is applied.

2.1.4.3 *Cloth covered bundle.* An item (such as most tents) pattern folded and packed by covering with jute, burlap, or cotton osnaburg cloth.

2.1.5 *Palletized unit load.* For the purpose of this standard, a palletized unit load shall consist of a container or a number of containers placed on a pallet, or skid platforms or runners, and secured thereto for the purpose of shipping as a unit.

2.1.6 *Cognizant activity.*

2.1.6.1 *For marking at contractors facilities.* Head of the bureau or service for which the supplies are procured.

2.1.6.2 *For marking at installations.* Head of the bureau or service having responsibility for storage and shipment.

2.1.7 *Methods of preservation and packaging.* Methods established by Military Specification MIL-P-116, Preservation, Method of.

2.1.8 *Levels of preservation, packaging, and packing.* Levels established by appropriated departmental instructions for Preservation, Packaging and Packing Levels.

2.2 **Marking terms.** Unless otherwise specified herein, when the following marking terms are specified, the words "Stock No.", "Nomenclature", etc., shall not be shown in the marking but the information indicated shall be completed as follows:

2.2.1 *Stock number.* The stock number shall be the exact stock number specified in the contract or order as specified by the cognizant activity concerned. The Federal Stock Number shall be used when provided. When no FSN has been issued, the space immediately above the stock number used shall be left for subsequent placement of FSN. The stock number shall not be altered by any addition or deletion.

2.2.2 *Nomenclature.* Nomenclature shall be the exact nomenclature of the item specified in the contract or order or as specified by the cognizant activity concerned.

Note. Nomenclature shall consist of the item name approved and published by the Office of Cataloging, OASD, and such additional modifiers or portions of the approved item description as may be required by the cognizant activity. Abbreviated nomenclature as authorized by the cognizant activity concerned will be permitted.

2.2.2.1 *Assorted items.* When an assortment of items which cannot be identified under one stock number is packed in a shipping container, a brief description of the contents will be permitted in lieu of nomenclature, for example: "Repair parts for pump, centrifugal, 2-inch disc, gas eng

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"RUSH BIOLOGICALS
REMOVED FROM REFRIGERATION
1_____ _____ _____
2_____ _____ _____
3_____ _____ _____
RETURNED TO REFRIGERATION
1_____ _____ _____
2_____ _____ _____
3_____ _____ _____"

To be delivered and returned to refrigeration as soon as possible. May be unrefrigerated for period of actual transit to receiving activity provided this can be accomplished within three or four days. If delayed enroute, return to refrigeration during delay.

"DO NOT FREEZE OR ALLOW TO BE SUBJECTED TO TEMPERATURES ABOVE 95°F. AT ANY TIME."

2.2.10.4.3 *Hazardous chemicals.* All package units of hazardous chemicals to be ultimately issued to the consumer who may be exposed to such chemicals under conditions of ordinary use shall have affixed thereto such warning labels as may be required in accordance with the Manufacturing Chemists Association's Manual L-1, A Guide for Preparation of Warning Labels for Hazardous Chemicals or in accordance with appropriate Department of Defense instructions as published which shall take precedence.

2.2.11 *Lot, batch, or control number.* Shall be that series of numbers or letters established by the manufacturer to record production and control of product.

2.2.12 *Serial number.* The serial number shall be that appearing on the item as assigned by the maunfacturer or the Government for identification or control purposes, and when unit packaged shall be shown on each unit and intermediate package and shipping container, except when several items bearing consecutive serial numbers are packed in one container only the first and last number of the series shall be shown. Serial numbers assigned by the manufacturer solely for the purpose of indicating the quantity produced shall not be shown.

2.2.13 *Name and address of contractor or manufacturer.* The name and address of the contractor, or manufacturer when specified, shall be shown by name, city, and state only.

2.2.14 *Contract, purchase, order, or office identifying number.* The contract, purchase order, or office identifying number shall be that appearing on the procurement documents covering the shipment. When the contract and purchase order number are both shown, the purchase order number shall be used; and for the Medical Services, when the contract and office identifying numbers are both shown, the office identifying numbers shall be used.

2.2.15 *Shipping package number.*

2.2.15.1 *Overseas shipment.* Shipments identified with an overseas address shall be numbered as directed by the cognizant activity.

2.2.15.2 *Domestic shipment.* Unless otherwise specified by the cognizant activity, for domestic shipments of identical items, package numbers will not be required. For domestic shipment of mixed items, containers shall be numbered consecutively, starting with number 1, and the number shall show in addition, the total number of containers, palletized unit loads or unpacked items comprising the shipment, for example, package No. 2 of a 28-package shipment shall be indicated at "PKG2 of 28." The shipping package number for shipments within or between Military departments shall be in accordance with Bureau or Service regulations or instructions.

2.2.16 *Requisition, project, and consignment number.* The requisition, project, and

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MIL-STD-129C
11 July 1960

SUPERSEDING
MIL-STD-129B
10 April 1957

SUPERSEDED

MILITARY STANDARD

MARKING FOR SHIPMENT AND STORAGE

EXHIBIT #76 Gona
PLAINTIFF'S EXHIBIT GOV-5
4-29 EXHIBIT 9 09 // SARGENT

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON, 1960

Obtained From
GLOBAL ENGINEERING DOCUMENTS

CONFIDENTIA

9999911 0438635 373

AF 45D9543 — Protector — Packing List.

AF 52D20335 — Protector — Packing List.

(Copies of specifications, standards, and drawings required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 OTHER PUBLICATIONS. The following documents form a part of this standard. Unless otherwise indicated, the issues in effect on date of invitation for bids shall apply.

GOVERNMENTAL

Civil Aeronautics Board Publications

(Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D.C.)

U.S. COAST GUARD REGULATIONS

Code of Federal Regulations, Shipping, Title 46 (Part 146 and 147).

(Copies may be purchased from the Superintendent of Documents, Washington 25, D.C.)

ACTIVITY ADDRESS DIRECTORY

AR-725-50-1
NAVSANDA PUBLICATION MCO P4235.17 AFM 75-6

(Copies may be obtained from the Superintendent of Documents, Washington 25, D.C.)

INTERSTATE COMMERCE COMMISSION REGULATIONS

(Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D.C.)

NONGOVERNMENTAL

Manufacturing Chemists Association

Manual L-1, A Guide for Preparation of Warning Labels for Hazardous Chemicals.

(Copies may be obtained from Manufacturing Chemists Association, 1825 Connecticut Avenue, N. W. Washington 9, D.C.)

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MILITARY STANDARD

MARKING FOR SHIPMENT AND STORAGE

TO ALL ACTIVITIES:

1. The following pages of MIL-STD-129C have been revised and supersede the pages listed:

New page	*Date*	*Superseded page*	*Date*
v	28 August 1962	v	25 May 1962
1	28 August 1962	1	11 July 1960
2	28 August 1962	2	11 July 1960
3	28 August 1962	3	25 May 1962
4	28 August 1962	4	25 May 1962
5	28 August 1962	5	11 July 1960
6	28 August 1962	7	25 May 1962
7	28 August 1962	6	25 May 1962
8	28 August 1962	8	25 May 1962
9	28 August 1962	9	11 July 1960
10	28 August 1962	10	11 July 1960
11	28 August 1962	11	11 July 1960
12	28 August 1962	12	11 July 1960
13	28 August 1962	13	25 May 1962
14	28 August 1962	14	25 May 1962
14a	28 August 1962	14a	25 May 1962
14b	28 August 1962	14b	25 May 1962
14c	28 August 1962		
15	28 August 1962	15	11 July 1960
16	28 August 1962	16	11 July 1960
16a	28 August 1962		
17	28 August 1962	17	25 May 1962
18	28 August 1962	18	11 July 1960
18a	28 August 1962		
19	28 August 1962	19	11 July 1960
20	28 August 1962	20	11 July 1960
20a	28 August 1962		
21	28 August 1962	21	11 July 1960
22	28 August 1962	22	11 July 1960
23	28 August 1962	23	11 July 1960
24	28 August 1962	24	25 May 1962
25	28 August 1962	25	11 July 1960
26	28 August 1962	26	11 July 1960
27	28 August 1962	27	11 July 1960
29	28 August 1962	29	11 July 1960
30	28 August 1962	30	11 July 1960
30a	28 August 1962		
31	28 August 1962	31	11 July 1960
32	28 August 1962	32	11 July 1960
33	28 August 1962	33	11 July 1960
34	28 August 1962	34	11 July 1960
35	28 August 1962	35	25 May 1962
36	28 August 1962	36	25 May 1962
37	28 August 1962	37	11 July 1960

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AF 45D9543 — Protector — Packing List.

AF 52D20335 — Protector — Packing List.

(Copies of specifications, standards, and drawings required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 OTHER PUBLICATIONS. The following documents form a part of this standard. Unless otherwise indicated, the issues in effect on date of invitation for bids shall apply.

GOVERNMENTAL

Civil Aeronautics Board Publications

(Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D.C.)

U.S. COAST GUARD REGULATIONS

Code of Federal Regulations, Shipping, Title 46 (Part 146 and 147).

(Copies may be purchased from the Superintendent of Documents, Washington 25, D.C.)

ACTIVITY ADDRESS DIRECTORY

AR-725-50-1
NAVSANDA PUBLICATION MCO P4235.17 AFM 75-6

(Copies may be obtained from the Superintendent of Documents, Washington 25, D.C.)

INTERSTATE COMMERCE COMMISSION REGULATIONS

(Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D.C.)

NONGOVERNMENTAL

Manufacturing Chemists Association

Manual L-1, A Guide for Preparation of Warning Labels for Hazardous Chemicals.

(Copies may be obtained from Manufacturing Chemists Association, 1825 Connecticut Avenue, N. W. Washington 9, D.C.)

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MILITARY STANDARD
MARKING FOR SHIPMENT AND STORAGE

TO: ALL ACTIVITIES

1. The following pages to MIL-STD-129D have been revised and supersede the pages listed.

NEW PAGE	DATE	SUPERSEDE PAGES	DATE
COVER	28 Dec 64	COVER	28 Dec 64
ii, iii	5 Jan 67	ii	28 Dec 64
iv	5 Jan 67	iv	17 Sep 66
3 through 8	5 Jan 67	3 through 8	28 Dec 64
12 through 16	5 Jan 67	12 through 16	28 Dec 64
17 through 20b	5 Jan 67	17 through 20a	6 Jul 66
21 through 23	5 Jan 67	21 through 23	28 Dec 64
24	5 Jan 67	24	1 Jul 65
25 through 28	5 Jan 67	25 through 28	28 Dec 64
31, 32, 32a, 32b	5 Jan 67	31, 32, 32a, 32b	17 Sep 66
33 through 40	5 Jan 67	33 through 40	28 Dec 64
45 through 48	5 Jan 67	45 through 48	28 Dec 64
FIGURE 6	5 Jan 67	FIGURE 6	28 Dec 64
FIGURE 7	5 Jan 67	FIGURE 7	28 Dec 64
FIGURE 8	5 Jan 67	FIGURE 8	1 Jul 65
FIGURES 17D & 18			
FIGURE 25	5 Jan 67	FIGURE 25	28 Dec 64
FIGURE 26	5 Jan 67	FIGURE 26	28 Dec 64
FIGURE 27	5 Jan 67	FIGURE 27	28 Dec 64
FIGURE 28	5 Jan 67	FIGURE 28	28 Dec 64
FIGURE 29	5 Jan 67	FIGURE 29	28 Dec 64
FIGURE 32	5 Jan 67	FIGURE 32	6 Jul 66

2. The following illustrations are to be added:

FIGURE 17E	5 Jan 67
FIGURE 39	5 Jan 67

3. Add Index.

4. Retain this notice and insert before table of contents.

Distribution:
Active Army, NG, and USAR: DA Form 12-9 requirements for Logistics Responsibilities, Functions and Procedures, General — C.

Military

MIL-STD-163 - Steel Mill Products Preparation for Shipment and Storage.

MIL-STD-212 - Preparation of Household Goods for Shipment and Storage and Related Services.

MIL-STD-290 - Packaging, Packing and Marking of Petroleum and Related Products.

MIL-STD-709 - Ammunition Color Coding.

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

2.2 Other publications.- The following documents form a part of this standard to the extent specified herein. Unless otherwise indicated, the issues in effect on date of invitation for bids or request for proposal shall apply.

GOVERNMENTAL

Civil Aeronautics Board Publications.

Federal Aviation Agency Regulations.

Maritime Administration Regulations.

U. S. Postal Manual.

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.)

JOINT MILITARY

Packaging and Handling of Dangerous Materials for Transportation by Military Aircraft (DSAM 4145.3, AFM 71-4, TM 38-250, NAVWEPS 15-03-500, and MCO P4030.19).

Military Standard Requisitioning and Issue Procedure (DOD 4140-17M).

Military Standard Transportation and Movement Procedures (DOD 4500.32-R).

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.)

U. S. COAST GUARD REGULATIONS

Code of Federal Regulations, Shipping, Title 46 (Part 146 and 147).

Transportation Title 49 (Part 71 through 79).

(Application for copies should be addressed to the Superintendent of Documents, Washington, D. C. 20402.)

INTERSTATE COMMERCE COMMISSION REGULATIONS

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.)

NONGOVERNMENTAL

Manufacturing Chemists Association

Manual L-1, Guide to Precautionary Labeling of Hazardous Chemicals.

(Application for copies should be addressed to the Manufacturing Chemists Association, 1825 Connecticut Avenue, N.W., Washington, D. C. 20000.)

Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.

3. DEFINITIONS

For purposes of this standard, the following definitions shall apply: (Additional packaging terms and definitions thereof shall be in accordance with Federal Standard No. 75.)

3.1 Bale.- Compressible articles or materials assembled into a shaped unit and bound with cord, strapping, or metal ties under tension.

3.2 Bundle.- Two or more articles bound or rolled together, usually without compression, so as to form a package or pack.

3.2.1 Bundle, cloth covered.- An item (such as tents) pattern folded and packed by covering with jute, burlap, or cotton osnaburg cloth.

3.3 Cognizant activity.-

3.3.1 For marking at contractors' facilities.- The contracting officer.

4.2.2.3 Obliterating lacquer, enamel or paint.- Obliterating lacquer shall conform to Specification TT-L-40. Lusterless enamel shall conform to Specification TT-E-515, and shall be sand color 30277, of Federal Standard No. 595. Obliterating paint shall conform to Specification MIL-P-52103. A quick drying opaque paint, approximating the color of the container may be used for obliterating marking, when approved by the cognizant activity.

4.2.3 Labels.- Unless otherwise authorized by the cognizant activity, labels shall be made of white paper containing not more than 15 percent unbleached or ground wood pulp and shall have a smooth finish.

4.2.4 Tags.- Unless otherwise specified, cloth and paper shipping tags shall be white or manila color. Tags and twine or wire for stringing shall conform to the requirements of Specification UU-T-81. Metal shipping tags shall be corrosion resistant.

4.2.5 Waterproof envelopes.- Waterproof envelopes for packing lists, bills of lading, shipping documents, etc., shall conform to Specification PPP-E-540.

4.2.6 Envelope protectors.- Envelope protectors shall conform to Specification PPP-P-700.

5. DETAILED REQUIREMENTS

5.1 METHOD OF MARKING AND SIZE OF MARKINGS.-

5.1.1 Method of marking interior packages, unpacked items, shipping containers and loose or unpacked items.- Marking of interior packages, unpackaged items and exterior packs (boxes, crates, miscellaneous packs, barrels, drums, bales, bundles, bags, palletized unit loads or loose items) shall be accomplished by use of labels, stamping, stenciling, printing, or tagging. Lithographing, silk-screening, photo marking, embossing, decals, transfers, or other similar processes, may be used when specified herein or upon approval of the procuring agency. Except for piece number, total pieces, and weight and cube information, hand lettering or writing shall not be used unless specifically authorized (see 3.3.2).

5.1.1.1 Condition of surfaces to be marked.- All surfaces to be marked shall be clean and entirely free of oil and grease, and any marks not applicable to the shipment contemplated, except those permitted by 4.2.1, shall be removed by covering with obliterating lacquer, enamel, or paint.

5.1.1.2 Legibility, color and durability of markings.- All markings shall be clear and legible and not less than the size specified (see 5.1.2). Markings shall be nonfading and durable. Unless specified herein, color of all markings shall be black, except when applied to surfaces on which black is not legible, then the color used shall provide a definite contrast. For example, yellow or white lettering shall be applied over lusterless, olive-drab coloring on metal drums.

5.2.2.2 Arrows. - Where consideration of the safety of the contents of unit and intermediate packages necessitates that the package be stacked with a specific surface up, two sides of a rectangular container and two equidistant points on the circumference of a cylindrical container shall be marked with the word "UP" with an arrow pointing toward the top of the container. The length and width of the arrow shall be proportioned to the available space. The word UP may be marked above the narrow head, below the stem, or on the stem.

5.2.2.3 Method II pack. - Method II packs, which are interior packages, shall bear a precautionary label or stamp (see fig. 2), on all unit and intermediate packages. When space is not available for the required label or stamp, the words "METHOD II PACKAGE -- DO NOT OPEN UNTIL READY FOR USE" in as large letters as possible shall be placed below the last line of the identification markings.

5.2.2.4 Radioactive material. - Interior packages containing radioactive materiel shall be marked in accordance with MIL-M-19590.

5.2.2.5 Hazardous chemicals. - All package units of hazardous chemicals to be ultimately issued to the consumer who may be exposed to such chemicals under conditions of ordinary use, shall have affixed thereto such warning labels as may be required by the Manufacturing Chemists Associations Manual L-1, Guide to Precautionary Labeling of Hazardous Chemicals, or by appropriate Department of Defense instructions, and military specifications and standards, as published, which shall take precedence.

5.2.2.6 Fragile items. - Unit and intermediate packages containing delicate or fragile articles shall be marked to indicate the fragility by means of a fragile label (see fig. 18), stamp, or stencil. When space permits, the fragile symbol shall be placed on at least one side and one end of the unit and intermediate packages. Containers imprinted on the top and bottom with "GLASS - DO NOT DROP OR THROW" or "GLASS - HANDLE WITH CARE," or a similar precautionary marking, will not require fragile labels.

5.2.2.7 Modification work order number. - Interior packages containing material furnished for a modification work order shall be marked with modification work order number, preceded by the symbol "FOR MWO," in addition to the required marking on all applicable packages.

5.2.2.8 Serial number. - When applicable, unit and intermediate packages shall be marked with the assigned serial number (see 3.33). The words "Serial No." shall be used to identify the information indicated.

Note: When items are unit packaged, serial numbers shall be shown on each unit and intermediate package and shipping container, except that when several items bearing consecutive serial numbers are packed in one container only the first and last number of the series shall be shown. Serial numbers assigned by the manufacturer solely for the purpose of indicating the quantity produced shall not be shown.

EXHIBIT
DEF 217g

MILITARY STANDARD

MARKING FOR SHIPMENT AND STORAGE

TO ALL HOLDERS OF MIL-STD-129F.

1. THE FOLLOWING PAGES OF MIL-STD-129F HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGES	DATE	SUPERSEDED PAGES	DATE
iii through xii	20 May 1974	iii through xii	30 March 1973
1 through 5	20 May 1974	1 through 5	30 March 1973
6	30 March 1973	Reprinted without change	
7 through 11	20 May 1974	7 through 11	30 March 1973
12, 13	30 March 1973	Reprinted without change	
14 through 20a	20 May 1974	14 through 20	30 March 1973
21	30 March 1973	Reprinted without change	
22 through 28a	20 May 1974	22 through 28	30 March 1973
31 through 33	20 May 1974	31 through 33	30 March 1973
34	30 March 1973	Reprinted without change	
39 through 42a	20 May 1974	39 through 42	30 March 1973
51	20 May 1974	51	30 March 1973
52, 53	30 March 1973	Reprinted without change	
54 through 58a	20 May 1974	54 through 58	30 March 1973
61 through 63a	20 May 1974	61 through 68	30 March 1973
71	20 May 1974	71	30 March 1973
72	30 March 1973	Reprinted without change	
77	30 March 1973	Reprinted without change	
78, 78a	20 May 1974	78	30 March 1973
79	20 May 1974	79	30 March 1973
80	30 March 1973	Reprinted without change	
81, 82	20 May 1974	81, 82	30 March 1973
89 through 92a	20 May 1974	89 through 92	30 March 1973
95, 96	20 May 1974	95, 96	30 March 1973

2. THE FOLLOWING PAGES ARE TO BE ADDED:

NEW PAGES	DATE
109-111	20 May 1974

Note: On all revised pages, changed portions of the text are indicated by vertical lines in the left margin.

3. The following figure has been deleted from page 24: Figure 9, 30 March 1973.

4. The following figure has been added to page 57: Figure 52a.

(Copies of specification, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this standard to the extent specified herein. Unless otherwise indicated, the issues in effect on date of invitation for bids or request for proposal shall apply.

GOVERNMENTAL

Code of Federal Regulations (CFR), 14 CFR, Federal Aviation Administration; Part 103, Transportation of Dangerous Articles and Magnetized Materials.

21 CFR, Food and Drug Administration, Department of Health, Education, and Welfare; Part 1, Regulation for the Enforcement of the Federal Food, Drug and Cosmetic Act, and the Fair Packaging and Labeling Act.

46 CFR, Coast Guard, Department of Transportation; Part 146, Transportation or Storage of Explosives and Other Dangerous Articles or Substances, and Combustible Liquids Aboard Vessels.

49 CFR, Department of Transportation; Chapter 1, Hazardous Materials Regulations Board, Parts 171-179.

US Postal Service Manual

Public Law 86-613, Federal Hazardous Substances Labeling Act.

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, DC 20402.)

NOTE: Regulations in 46 CFR and 49 CFR are also published in the R. M. Graziano's Water Carrier Tariff and R. M. Graziano's Tariff. Hazardous Materials Regulations of the Department of Transportation, respectively.

JOINT MILITARY

Packaging and Handling of Dangerous Materials for Transportation by Military Aircraft (DSAM 4145.3, AFM 71-4, TM 38-250, NAVSUP PUB 505, and MCO P4030.19).

Military Standard Requisitioning and Issue Procedure (DOD 4140-17M).

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, DC 20402.)

Military Standard Transportation and Movement Procedures (DOD 4500.32-R).

Cataloging Manual M1-7, Federal Manual for Supply Cataloging.

Cataloging Handbooks H4-1 and H4-2, Federal Supply Code for Manufacturers, United States and Canada.

(Distribution is handled exclusively through Service/Agency distribution points.)

NONGOVERNMENTAL

Manufacturing Chemists Association

Civil Aeronautics Board (C.A.B. No. 82) Official Air Transport Restricted Articles Tariff No. 6-D.

(Application for copies should be addressed to the Airline Tariff Publisher, Inc., Agent 1825 K St N.W. Washington DC 20006.

Manual L-1, Guide to Precautionary Labeling of Hazardous Chemicals.

(Application for copies should be addressed to the Manufacturing Chemists Association, 1825 Connecticut Avenue, N.W. Washington, DC 20000.)

National Fire Protection Association International Fire Protection Guide on Hazardous Materials.

(Application for copies should be addressed to National Fire Protection Association International, 60 Batterymarch Street, Boston, Massachusetts 02110.)

Agent R.M. Graziano's Water Carrier Tariff

NOTE: This Tariff publishes 46 CFR, parts 146-01 through 146.29.

Agent R.M. Graziano's Tariff, Hazardous Materials Regulations of the Department of Transportation.

NOTE: This Tariff publishes 49 CFR, Parts 170-179.

(Application for copies should be addressed to Association of American Railroads, American Railroads Building, 1920 "L" Street, N.W. Washington, DC 20036.)

5.2.2.4 Hazardous chemicals and substances. All unit and intermediate packages of hazardous chemicals and materials (including aerosol propellants) shall have affixed thereto the applicable warning label prescribed by the Manufacturing Chemists Association Manual LI-1 (Guide to Precautionary Labeling of Hazardous Chemical) and the applicable code of Federal Regulations. Details for marking aerosol products are contained in 5.3.1g.

5.2.2.5 Flammable and combustible liquids. All unit and intermediate packages containing material having a flash point of 200° F. or less shall be marked with the flash point of the material (fig 5). The marking shall be expressed in degrees Fahrenheit, iee., 'FLASH POINT 80° F.,' and shall be applied on the identification marked side by means of labeling, printing, stamping or stenciling. Flash point shall be determined by using the Tagliabue (TAG) testing method prescribed in DOT regulations.

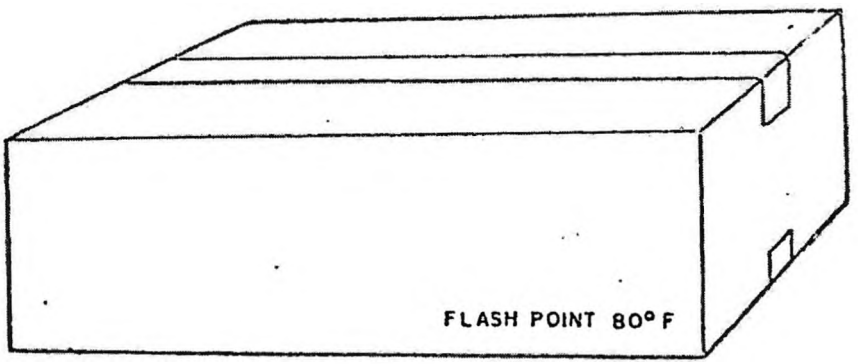


Figure 5. Flash point marking.

5.2.2.6 Fragile items. Unit and intermediate packages containing delicate or fragile articles shall be marked by means of a fragile label (fig 6), stamp or stencil. When space permits, the fragile symbol shall be placed on the identification marked side, and one end of rectangular packages and two equally spaced areas on the circumference of cylindrical packages. Containers imprinted on side and end with GLASS--DO NOT DROP OR THROW or GLASS--HANDLE WITH CARE, or similar precautionary markings shall not require fragile labels. Markings shall be placed in a manner that will not interfere with other required markings. Fragile labels shall not be required when rough handling tests confirm that the container and its cushioning systems protect the item from dynamic environments such as shock and vibration encountered during shipment and handling. For vendor shipments only, when the prescribed fragile label is not available at time of shipment, a vendor fragile label may be used, provided it denotes the word FRAGILE.

MIL-STD-129F
30 June 1976
SUPERSEDING
MIL-STD-129F
30 March 1973

MILITARY STANDARD

MARKING FOR SHIPMENT AND STORAGE



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2.2 Other publications. The following documents form a part of this standard to the extent specified herein. Unless otherwise indicated the issues in effect on date of invitation for bids or request for proposal shall apply.

GOVERNMENTAL

CODE OF FEDERAL REGULATIONS (CFR's)

* CFR Title 10 - Energy

CFR Title 14 - Aeronautics and Space

CFR Title 21 - Food and Drug

* CFR Title 27 - Alcohol, Tobacco Products and Firearms

CFR Title 39 - Postal Service

CFR Title 46 - Shipping

CFR Title 49 - Transportation

Public Law 86-613, Federal Hazardous Substances Labeling Act.

(Application for copies should be addressed to the Superintendent of Documents, US Government Printing Office, Washington, DC 20402.)

NOTE: Regulations in CFR 46 and CFR 49 are also published in the R. M. Graziano's Water Carrier Tariff and R.M. Graziano's Tariff. Hazardous Materials Regulations of the Department of Transportation, respectively.

JOINT MILITARY

* DOD 4130.2M - Federal Cataloging System Policy Manual

AFR 71-4/TM 38-250/NAVSUP Pub 505(REV)/MCO P4030.19D/ DSAM 4145.3 - Materials Handling Preparation of Hazardous Materials For Military Air Shipment

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* International Air Transport Association, (IATA) Restricted Articles Regulations.

(Application for copies should be addressed to International Air Transport Association 1155 Mansfield Street, Montreal 113, Que, Canada.)

* International Atomic Energy Agency's (IAEA) "Regulations for the Safe Transport of Radioactive Materials."

(Application for copies should be addressed to: Office of Hazardous Materials, US Department of Transportation, Washington, DC 20590.)

(Manufacturing Chemists Association--Manual L-1, Guide to Precautionary Labeling of Hazardous Chemicals.

(Application for copies should be addressed to the Manufacturing Chemists Association, 1825 Connecticut Avenue, N.W. Washington, DC 20009.)

I National Fire Protection Association Standard 49, Hazardous Chemicals Data.

, National Fire Protection Association Standard 704M, Identification of the Fire Hazards of Materials.

(Application for copies should be addressed to National Fire Protection Association International, 60 Batterymarch Street, Boston, AM 02110.)

Agent R.M. Graziano's Water Carrier Tariff

NOTE: This Tariff publishes CFR 46, parts 146-01 through 146.29.

Agent R.M. Graziano's Tariff, Hazardous Materials Regulations of the Department of Transportation.

NOTE: This Tariff publishes CFR 49, Parts 170-179.

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5.2.2.4 Hazardous chemicals and substance. All unit and intermediate packs of hazardous chemicals and materials (including aerosal propellants) shall have affixed thereto the applicable warning labels in accordance with the applicable laws, statutes, regulations, or ordinances. Such laws include the Federal Food, Drug, and Cosmetic Act, Federal Hazardous Substances Act and similar State and municipal legislation, the Federal Insecticide, Fungicide, and Rodenticide Act, and Department of Transportation (DOT) Hazardous Material Regulations.

5.2.2.5 Flammable and combustible liquids.

a. Flammable liquid. All unit and intermediate packs containing materiel having a flash point below 100°F. (37.8°C) shall be marked with the flash point of the materiel.

* b. Pyroforic liquid. Any liquid that ignites spontaneously in dry or moist air at or below 130°F. sec 173.115 of CFR-49) shall be marked with the flash point of the materiel.

c. Combustible liquids. All unit and intermediate packs containing materiel having a flash point at or above 100°F. (37.8C) and below 200°F. (93.3°C) (sec 173.115(a)(2) CFR-49) shall be marked with the flash point of the materiel.

* NOTE:

Flash point markings shall be expressed in degrees Fahrenheit, i.e., flash point 80°F., and shall be applied on the identification marked side by means of labeling, printing, stamping, or stenciling (fig 5). Flash point shall be determined by using the testing methods prescribed in DOT regulations, e.g., CFR-49, 173.115.

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MILITARY STANDARD

MARKING FOR SHIPMENT AND STORAGE

TO ALL HOLDERS OF MIL-STD-129G

1. THE FOLLOWING PAGES OF MIL-STD-129G HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
39	1 September 1976	(REPRINTED WITHOUT CHANGE)	1 September 1976
40	25 January 1977	40	1 September 1976
77	25 January 1977	77	1 September 1976
78	25 January 1977	78	1 September 1976

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-129G will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or canceled.

Custodians:
Army - SM
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Air Force - 16
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Preparing activity:
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Project: PACK 0561

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Army - EL, GL, WC, MU, AT, ME, AV, MD, WV, PA, EA
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User activities:
DSA - IP
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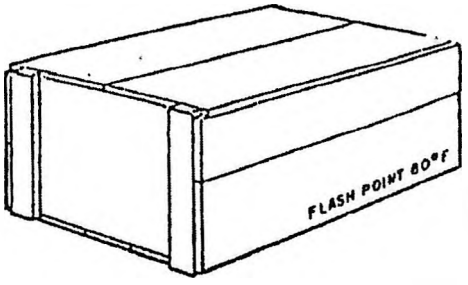


Figure 53. Flash point marking.

5.4.20.1 Hazardous chemicals and materials. Hazardous chemical and material packs that are also shipping containers (includes cans, drums) shall be marked with the applicable label or information in accordance with CFR 46 and CFR 49. Manual L-1 (Guide to Precautionary Labeling of Hazardous chemicals) may be used as a guide in preparing precautionary label text.

5.4.21 Supply class identification marking labels. The use of supply class identification color marking labels shall be on an optional basis, except for medical supplies, and used only when specified by a Military Department. The marking requirements are contained in appendix A of this standard.

5.4.22 Method II markings. Method II packs which are shipping containers shall bear a precautionary label on the identification marked side (fig.54). Method II markings may be applied by means of labels (see 5.2.2.3), or a copy of the label may be printed or stenciled on the container using waterproof red ink. When there is insufficient space for labeling, the words "METHOD II PACKAGE, DO NOT OPEN UNTIL READY FOR USE" in letters as large as space permits shall be printed or stenciled on the container.

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