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SMCAR-AEP (340d)

MEMORANDUM FOR Commander, Defense Technical Information Center,
Building 5, Cameron Station, Alexandria, VA,
22304-6145

SUBJECT: Release of Performance Oriented Packaging Compliance Report

1. The enclosed report (DOD POP HMTR/AYD 92-001) is hereby submitted to the Defense Technical Information Center for formal release. Notification of the formal release should be made to the letterhead address.
2. If there are any problems, questions, or comments regarding this report, contact Mr. Frank Sniezek at 201-724-2156 (DSN 880-2156).

Encl
as

Robert J. Kuper

ROBERT J. KUPER
Chief, Packaging Division

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92-09072



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I. REPORT NUMBER: DOD POP HMTR/AYD 92-001

II. TITLE: Performance Oriented Packaging Report for Fuze, Demolition Kit, M1134

AUTHOR: Frank M. Sniezek

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army
ARDEC, SMCAR-AEP
HQ, U.S. Army Armament, Munitions, and Chemical Command
Picatinny Arsenal, NJ 07806-5000

DATE: 27 Mar 92

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1. DATA SHEET

CONTAINER

Type: Fiberboard Box
UN Code: 4G
Nomenclature: Container, Fiberboard, Ammunition, for Fuze, Demolition
Kit M1134, or Training M1147
Specification Number: PPP-B-636
Drawing Number: 8799683
Material: Fiberboard
Gross Weight: 39.0 pounds (See Note *)
Inside Dimensions: 20 15/16" x 9 7/16" x 7 9/16"
Outside Dimensions: 21 1/2" x 10" x 8"

PRODUCT

Name: Fuze, Demolition Kit M1134, or Training M1147
Drawing Number: 12597841
Specification Number: Mil-F-70736
United Nations Number: 0257
Proper Shipping Name: Fuzes, Detonating
Physical State: Solid
Amount per container: 1 fuze/PPP-B-636 inner box IAW Dwg. 8799682
10 fuzes/PPP-B-636 outer box IAW Dwg. 8799683

* Note: The tests were conducted with a larger gross weight of 50.0 pounds in lieu of the 39.0 pounds.

2. BACKGROUND, TESTS, AND RESULTS

Reference the following documents:

- a. United Nations Transport of Dangerous Goods, Sixth Edition
- b. 49 CFR, Parts 100-177, dtd. 1 Oct 91

A Stacking Test was conducted IAW the 49CFR on 3 containers with a weight of 2500 pounds for 24 hours which is equivalent to a 10' stack height.

A Loose Cargo Test was conducted IAW the 49 CFR on the same 3 containers. The packages were tested for one hour at a vibration table frequency such that the bottom of the packages was raised 1/4 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted IAW the 49CFR on one of the containers that was subjected to the Stacking and Loose Cargo Tests. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicate that there was no leakage or spillage of the containers following any of the tests conducted, and as such, meets the performance requirements of the 49CFR and the United Nations Transport of Dangerous Goods. As such, a CAA will be requested to allow the use of the fiberboard box as the outer shipping container in lieu of a wood box which is specified for UN 0257 for Fuzes, Detonating.

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17. ABSTRACT (Continue on reverse if necessary and identify by block number)			
THIS REPORT IS FOR THE FUZE, DEMOLITION KIT, M1134 WHICH IS PACKAGED 10 FUZES/PPP-B-636 FIBERBOARD BOX. THIS REPORT DESCRIBES THE RESULTS OF THE POP TESTING CONDUCTED.			
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20. NAME OF RESPONSIBLE INDIVIDUAL STEVE ROFFINI		22b. TELEPHONE (Include Area Code) (201) 724-2515	22c. OFFICE SYMBOL SMCAR-AEP