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PICATINNY ARSENAL, NJ 07806-5000



REPLY TO
ATTENTION OF

AD-A269 629



SMCAR-AEP (1mm)

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

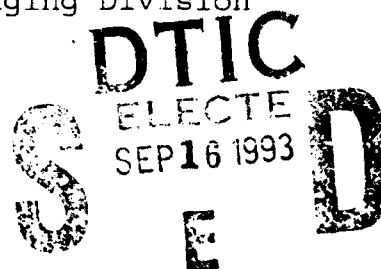
SUBJECT: Release of Performance Oriented Packaging Compliance
Report for Demolition Kit, Bangalore Torpedo: M1A2

1. The enclosed report (DOD POP HMTR/AYD 91-010 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
Chief, Packaging Division



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REPORT DOCUMENTATION PAGE

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2a SECURITY CLASSIFICATION AUTHORITY			3 DISTRIBUTION / AVAILABILITY OF REPORT	
2b DECLASSIFICATION / DOWNGRADING SCHEDULE			Unlimited	
4 PERFORMING ORGANIZATION REPORT NUMBER(S) DOD POP HMTR/AYD 91-010			5 MONITORING ORGANIZATION REPORT NUMBER(S)	
6a NAME OF PERFORMING ORGANIZATION Packaging Division, AED	6b OFFICE SYMBOL (if applicable) SMCAR-AEP	7a NAME OF MONITORING ORGANIZATION		
6c ADDRESS (City, State, and ZIP Code) U.S. Army, ARDEC Picatinny Arsenal, NJ 07806-5000		7b ADDRESS (City, State, and ZIP Code)		
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		WORK UNIT ACCESSION NO		
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12. PERSONAL AUTHOR(S) Sniezek, Frank				
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17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	Performance Oriented Packaging, POP, Demolition Kit, Bangalore Torpedo: MIA2	
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This POP report is for the Demolition Kit, Bangalore Torpedo: MIA2 which is packaged one demolition kit/MIL-B-2427 wood box.				
20 DISTRIBUTION / AVAILABILITY OF ABSTRACT ☐ UNCLASSIFIED/UNLIMITED ☒ SAME AS RPT ☐ DTIC USERS			21 ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a NAME OF RESPONSIBLE INDIVIDUAL STEVE RUFFINI <i>Steve Ruffini</i>			22b TELEPHONE (Include Area Code) (201) 724-2515	22c OFFICE SYMBOL SMCAR-AEP

I. REPORT NUMBER: DOD POP HMTR/AYD 91-010

II. TITLE: Performance Oriented Packaging Report for Demolition Kit,
Bangalore Torpedo: M1A2

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: 7 September 93

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By	
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DTIC QUALITY INSPECTED 8

1. DATA SHEET

CONTAINER

Type: Box
UN Code: 4C1
Nomenclature: Box, Packing, Ammunition for Kit, Demolition,
Bangalore Torpedo, M1A2
Specification Number: Type II, Grade A, Class 5, Mil-B-2427
Drawing Number: 9216100
Material: Wood
Gross Weight: 198 pounds
Outside Dimensions: 65 5/8 x 15 5/16 x 7
Inside Dimensions: 60 3/8 x 13 3/4 x 4 9/16

PRODUCT

Name: Demolition Kit, Bangalore Torpedo, M1A2
Drawing Number: 8863370
United Nations Number: 0034
Physical State: Solid
Amount per Container: 1

2. BACKGROUND, TESTS, AND RESULTS

Reference the following document:

a: 49CFR, October 1, 1991 Edition

A Stacking Test was conducted on three containers packaged with 1 1/2 inch nominal, schedule 40 pipe, to simulate the torpedoes. The gross weight of the packed box was 206 pounds which exceeds the gross weight of the packaged bangalore torpedoes which is 198 pounds. A stacking weight applied to each of the containers was 3502 pounds for 24 hours. This weight exceeds the minimum requirement for a 10 foot stack height which is 3394 pounds.

A Loose Cargo Test was conducted on the same three containers, previously tested in the Stacking Test for one hour. The packages were tested at a vibration table frequency such that the bottom of the packages were raised a minimum of 1/16 inch.

The Four Foot Drop Test was conducted. One of the containers, previously tested in the Stacking and Loose Cargo Tests was dropped at orientations of top, bottom, long side, short side, and 45 degrees on the top. Since the results of the 45 degree top drop orientation was marginal, it was decided to retest using live charges. Three containers packaged with live charges were dropped 45 degrees at orientations of top corner of the hasp side of the box, top corner on the hinge side of the box, and bottom corner of the hasp side of the box.

The test results indicated no leakage or spillage of the contents from the containers following the tests conducted, meeting the requirements of the 49CFR.