

APPENDIX 4-A

STORAGE OF CADMIUM

1. *Description.* Cadmium is a soft, malleable, silver-white metal. It may be in the form of balls, ingots, slabs or sticks. The forms of cadmium may be of any standard size, but all material in any lot will be of the same nominal size and shape. Normally the size of cadmium balls is about 2 inches in diameter (1-1/2 pounds) while cadmium ingots and slabs are about 8 x 4 x 3-1/5 inches (25 pounds) and cadmium sticks will be about 5/15 x 12 inches (5 ounces).

2. *Packaging.* Cadmium will be packed in wooden boxes containing from 100 to 220 pounds each. Boxes will vary, but all boxes in a particular delivery will be of the same nominal size and shape.

3. *Marking*

a. Identification of material will be obtained from information shown on shipping documents. The DNOSC-O shall be contacted for further instructions if shipments are received prior to receipt of identifying documents, or if type or form is different from that shown on shipping documents.

b. Prior to receipt, each box will be marked as follows:

- (1) Name of Product
- (2) Name of Producer
- (3) Country of Origin
- (4) Form
- (5) Gross and Net Weights
- (6) Government Contract Number
- (7) Lot Number

4. *Storage*

a. Cadmium shall be stored in a sprinklered warehouse, shed or other structure so as to protect the boxes from the weather, but should not be stored in the same fire section with highly combustible commodities such as rubber. When structures such as magazines, igloos or other segregated buildings are used and there are no combustible commodities stored with the cadmium, sprinklers may be omitted.

b. Boxes shall be stored on base floor pallets in uniform rows and number of tiers so as to facilitate the taking of an inventory at any time by a physical count and computation. If pallets are used between tiers, a uniform number of boxes of the same nominal size and shape shall be placed on each pallet, except when an odd number on the top pallet of a stack of uniform height will complete the lot. In doing this, economical use of space must be given full consideration and all segregation requirements must be met.

APPENDIX 4-A**STORAGE OF CADMIUM***5. Precautions To Be Taken*

a. *Health.* Cadmium is a toxic metal that produces cadmium oxide fumes when heated in the air. Fire fighters and others that might have occasion to enter a cadmium storage area under fire conditions should be cautioned to wear a self-contained breathing apparatus. If loose metal must be handled, dust should be minimized and respirators and gloves worn.

b. All entrances into a cadmium storage area shall be marked: CADMIUM - IN CASE OF FIRE DO NOT ENTER THIS BUILDING (OR AREA) WITHOUT A SELF-CONTAINED BREATHING APPARATUS.

6. Average Storage Factor

a. The average gross square feet per short ton for the storage of cadmium metal is approximately 6 square feet.

FOR ADDITIONAL INFORMATION ON THIS COMMODITY REFER TO THE MATERIAL SAFETY DATA SHEET OR THE MOST RECENT PURCHASE SPECIFICATION.