

APPENDIX 4-A

STORAGE OF MANGANESE METAL - ELECTROLYTIC

1. *Description.*

a. Electrolytic manganese is a metal with a dark gray rough surface on one side and a smooth silver like luster on the other side. It will be received in the form of cathode chips. When acquired, manganese metal - electrolytic shall meet Purchase Specification P-98-R (Current Edition).

2. *Packaging.*

a. All electrolytic manganese metal shall be packed in new 30-gallon, 16-gauge steel drums, hot-dipped galvanized or painted after fabrication, conforming to the requirements of DLA Strategic Materials Container Specification C-1 (latest revision), Drums: Steel, Hot-Dip, Galvanized.

3. *Marking.*

a. Drums are to be identified with three metal tags. One tag to be attached to the outside of the lid, one on the inside of the lid, and one attached to the drum side. Information on the tags will be as instructed on the purchase contract and purchase specification.

4. *Storage.*

a. Electrolytic manganese metal in painted drums shall be stored in a warehouse, shed or other structure so as to protect drums from the weather. Material in galvanized steel drums may be stored in the open on concrete runners or concrete blocks when specifically authorized by the DLA Strategic Materials.

5. *Precautions To Be Taken*

a. *Health.* Dust should be minimized during receipt and/or outloading this material.

b. *General.* Rough handling may cause extensive damage to the galvanized coating on the drums. When discovered, all abrasions or scratches shall be coated with a zinc base paint prior to placement of drums in permanent storage. Proper care shall be exercised in handling drums in order to avoid damage. Upon receipt, drums should be carefully checked to insure that the lids are securely fastened.

7. *Average Storage Factor*

a. *National Stockpile Average Square Foot Occupancy.* About 4 gross square feet per short ton.

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