CHEMICAL FERTILIZERS E BOOKS



LIQUID AND POWDER MANGANESE FERTILIZERS

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 (Mn 30)

LIQUID MANGANESE EDTA CHELATED FERTILIZER Mn - 5

| NO | CHEMICALS | W/W |
|----|--------------------------------|------|
| 1 | MANGANESE SULPHATE MONOHYDRATE | 16.2 |
| 2 | EDTA | 5.4 |
| 3 | WATER | 78.4 |
| | | |
| | | |
| | | |
| | | |
| | TOTAL | 100 |

PROCESS: First, Put water into a stirred tank. Add edta. Start stirring. Add maganese sulphate monohydrate while stirring. Dissolve edta and manganese sulphate monohydrate in the tank complety. If homogeneous is enough. Process is completed.

NOTE: In the above liquid manganese fertilizer (Mn-5) has % 5 mn (manganese chelated – 2 Mn + manganese normal – 3 Mn). Also, the edta in the fertilizer helps to easier absorption for leaves and plant roots.

LIQUID MANGANESE EDTA CHELATED FERTILIZER Mn - 8

| NO | CHEMICALS | | |
|----|--------------------------------|------|--|
| 1 | MANGANESE SULPHATE MONOHYDRATE | 25.8 | |
| 2 | EDTA | 8.6 | |
| 3 | WATER | 65.6 | |
| | | | |
| | | | |
| | | | |
| • | TOTAL | 100 | |

PROCESS: First, Put water into a stirred tank. Add edta. Start stirring. Add manganese sulphate monohydrate while stirring. Dissolve edta and manganese sulphate monohydrate in the tank complety. If homogeneous is enough. Process is completed.

NOTE: In the above liquid manganese fertilizer (Mn - 8) has % 8 Mn (manganese chelated – 3 Mn + manganese normal – 5 Mn). Also, the edta in the fertilizer helps to easier absorption for leaves and plant roots.

POWDER MANGANESEFERTILIZER Mn - 20

| NO | CHEMICALS | W/W |
|----|--------------------------------|------|
| 1 | MANGANESE SULPHATE MONOHYDRATE | 64.5 |
| 2 | EDTA | 8.5 |
| 3 | MAGNESIUM SULPHATE | 27 |
| | | |
| | | |
| | | |
| | | |
| | TOTAL | 100 |

PROCESS: All ingredients are solid. So put all ingredient into mixing tank. Mixture until homogeneous. If homogeneous is desired. Mixing is finished. Process is completed. Solid mixture in the stirring tank is packed at different packing

NOTE: In the above powder manganese fertilizer has % 7 Mn (Manganese soluable in water). Magnesium sulphate in the above formula is used as filler. Also, the edta in the fertilizer helps to easier absorption for leaves and plant roots.

POWDER MANGANESE FERTILIZER Mn - 30

| NO | CHEMICALS | W/W | |
|----|--------------------------------|-------|--|
| 1 | MANGANESE SULPHATE MONOHYDRATE | 96.75 | |
| 2 | EDTA | 3.25 | |
| | | 5 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | TOTAL | 100 | |

PROCESS:PROCESS: All ingredients are solid. So put all ingredient into mixing tank. Mixture until homogeneous. If homogeneous is desired. Mixing is finished. Process is completed. Solid mixture in the stirring tank is packed at different packing

NOTE: In the above powder manganese fertilizer has % 7 Mn (Manganese soluable in water). Also, the edta in the fertilizer helps to easier absorption for leaves and plant roots.