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**SPECIFICATIONS FOR
MAGNESIUM SULFATE CRYSTALS,
USP
March 12, 2007**

CHARACTERISTICS:

1. The material shall be colorless, solid at ambient temperatures, formed in small needle-like rhombic crystals and free of solid or fibrous foreign matter that will require the dissolved material to be filtered before being used.
2. During normal storage periods, up to six months, the material shall be free flowing when emptied from its shipping container. It shall not be caking or bridging.

PROPERTIES:

| | |
|------------------------|--|
| CHEMICAL | |
| Identification | Test of MagnesiumPositive Test of SulfatePositive Consistently Free of Volatile Organic Impurities |
| pH. | 5.0 – 9.2 |
| Loss of ignition | 40.0% - 52.0% |
| Chloride | 014% maximum |
| Arsenic | 0003% maximum |
| Heavy Metals | 001% maximum |
| Iron | 002% maximum |
| Selenium | 003% maximum |
| Assay | 99.0% - 100.5% |

PHYSICAL

| | |
|--|----------------------|
| Color | Colorless |
| Crystal Form | Rhombic (monoclinic) |
| Density, Bulk (approximate) lb/ft3 | 65 |

QUALITY ASSURANCE PROVISION:

GENERAL

The material specified herein shall be manufactured using acceptable industrial practices.

The material shall be guaranteed to meet chemical and physical properties specified herein.

RESPONSIBILITIES FOR TESTS & INSPECTIONS

Unless otherwise specified by purchaser, the supplier is responsible for providing a lot analysis on the Material. Except as otherwise specified, the supplier may utilize his own facilities or any commercial Laboratory. Analysis' are available for each lot at an additional charge.

PACKAGING & SHIPPING

PACKAGING

Shall be accomplished in accordance with acceptable commercial practices for domestic or foreign shipments unless otherwise indicated by the purchaser. It shall be the vendor's responsibility to determine that packaging, as done, is adequate to assure that all materials shall arrive at destination in an uncontaminated condition and ready for intended use.

SHIPPING

Shall be accomplished in accordance with acceptable commercial practices for domestic or foreign shipment For this type of product unless otherwise indicated by the purchaser.

DISCUSSION

CHARACTERISTICS

Epsom salt is one of the most common forms of magnesium sulfate. EPSOM SALT is a hydrated salt with seven molecules of water, so caking or bridging should not be a significant problem. Care should be taken, however to protect the material if it is stored in the granular form for long periods of time. EPSOM SALT is readily soluble in water and will yield a saturated 24.5 percent solution of magnesium sulfate at storage temperatures of 65-70 degrees F.

PRODUCERS OF MAGNESIUM SULFATE SINCE 1950