



Giles Chemical, a division of Premier Magnesia, LLC.
102 Commerce Street Waynesville, NC 28786
Phone: 828-452-4784 Fax: 828-452-4786
Tech Certificate of Analysis

Release Date: _____

CUSTOMER : _____

CUST. REF: _____ SHIP DATE: _____

PRODUCT: Magnesium Sulfate - Tech TRAILER NUMBER: _____

SHELF LIFE: 3 Years BILL OF LADING #: _____

LOT NUMBER: _____ PO NUMBER #: _____

CARRIER: _____ MANUFACTURED: _____

CUST. CONTACT: _____ EXPIRATION: _____

I certify that this material meets all the requirements of the Giles Chemical sales specifications. Periodic testing has shown the samples to be consistently free of volatile organic impurities. Giles Chemical magnesium sulfate is manufactured under the guidelines of Current Good Manufacturing Practices (cGMP).

EPSOM SALT, Magnesium Sulfate - Heptahydrate, Tech Grade
(Contains $\leq 1\%$ Fragrance and may contain trace amounts of proprietary additives)

METHOD	TEST	LOWER	UPPER	Test Results
VISUAL	Appearance	~~	~~	Clear
L12-PR-100-004	Limit of Chloride	~~	140 ppm	Pass
L12-PR-100-005	Limit of Iron	~~	20 ppm	Pass
L12-PR-100-007	Selenium	~~	30 ppm	Pass
L12-PR-100-006	Heavy Metals (as Pb)	~~	10 ppm	Pass
L12-PR-100-002	pH (5% Solution)	5.0	9.2	Pass
L12-PR-100-003	Loss on Ignition	40.0	52.0	Pass
L12-PR-100-008	Assay, % MgSO ₄ (Dry Basis)	99.0	100.5	Pass
Calculated from Assay & LOI	% MgSO ₄ (As is Basis)	47.52	60.3	Pass
L12-PR-100-001	ID, Magnesium	~~	~~	Present
L12-PR-100-001	ID, Sulfate	~~	~~	Present

CONTACT:

Quality Assurance Laboratory

Paul Rice - Chemist

ANALYST:

SIGNATURE ON FILE