

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:	1/20/2018				
CUSTOMER :					
CUST. REF:	_	SHIP DATE:			
PRODUCT:	Magnesium Sulfate - Tech	TRAILER NUMBER:			
SHELF LIFE:	3 Years	BILL OF LADING #:_			
LOT NUMBER:	0418	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

METHOD	TEST	LOWER	UPPER	Test Results
VISUAL	Appearance	~~	~~	Clear
L12-PR-100-004	Limit of Chloride	~~	140 ppm	< 140 ppm
L12-PR-100-005	Limit of Iron	~~	20 ppm	< 20 ppm
L12-PR-100-007	Selenium	~~	30 ppm	< 30 ppm
L12-PR-100-006	Heavy Metals (as Pb)	~~	10 ppm	< 10 ppm
L12-PR-100-002	pH (5% Solution)	5.0	9.2	6.14
L12-PR-100-003	Loss on Ignition	40.0	52.0	51.16%
L12-PR-100-008	Assay, % MgSO4 (Dry Basis)	99.0	100.5	100.04%
Calculated from Assay & LOI	% MgSO4 (As is Basis)	47.52	60.3	48.86%
L12-PR-100-001	ID, Magnesium	~~	~~	Present
L12-PR-100-001	ID, Sulfate	~~	~~	Present

CONTACT: ANALYST:

Quality Assurance Laboratory SIGNATURE ON FILE

Paul Rice - Chemist