

2731 Bartram Road Bristol, PA 19007-6893 800.385.3153 www.unitedchem.com

## **CERTIFICATE OF ANALYSIS**

## **PRODUCT NAME:** CHEMICAL: SILICA TYPE: LOT NUMBER:

ECQUEU515CT Mixture of MgSO4, CUPSA, CUCARB Irregular particles 40-63 micron, 60 Angstroms 042450-CN

		Specification Values		Lot Analysis
Test	Method	Min	<u>Max</u>	
Average Pore Size	SOP82-4.042	55Å	65Å	60Å
Surface Area $(m^2/g)$	SOP82-4.042	470	530	$520 \text{ m}^2/\text{g}$
Pore Volume (cm <sup>3</sup> /g)	SOP82-4.042	0.70	0.85	0.75 cm <sup>3</sup> /g
Appearance	Visual	White Fine Powder		White Fine Powder
MgSO4 (lot#919010-BE)				
Assay	Ignition	99.50%	100.5%	100.0%
• Total sorbent weight per tube (900mg)	-	855	945	Conforms
CUPSA (lot#818011-GD)				
Carbon Analysis by Weight (Organic Loading)	SOP82-4.024	10.50%	12.50%	11.00%
Anion Exchange	SOP82-4.028	1.00	1.50	1.12 meq/g
• Total sorbent weight per tube (150mg)		143	158	Conforms
CUCARB (lot#819260-DT)				
Graphitized carbon	SOP82-4.042			$133 \text{ m}^2/\text{g}$
• Total sorbent weight per tube (15mg)		14.3	15.8	Conforms

• All components of this product are individually weighed. The mass of each raw material meets method required tolerances.

The shelf life is only valid if the material is stored in the original unopened container. The specifications and lot analysis are only valid using the listed methods. The test methods and specifications were current when the product was lotted.

**CERTIFIED BY: NAME:** D. Shawn Ream

## TITLE: QC MANAGER

## Certificate issue DATE: 05/22/2019

2731 Bartram Road / Bristol, PA 19007 USA / Phone 215-781-9255 / Fax 215-785-1226 Email: <u>info@unitedchem.com</u> Internet: HTTP://www.unitedchem.com