## Kalchem International

## Chemicals & Compounding Supplies

DOW

THE DOW CHEMICAL COMPANY

298900 plog 2

UNIVAR USA INC BEDFORD PARK BRANCH 8500.W 68TH ST BEDFORD PARK IL 60501-1850

Ship From: BAY CITY Whse

BAY CITY

Michigan, United States

Customer Information Certificate of Analysis

Product Number

00000016538

Customer Name

UNIVAR USA INC

Product Name

Customer PO number

CB-064682

METHOCEL™ E4M Premium Hydroxypropyl Methylcellulose

00016538

Delivery No. Order Number 804298706 /000070

102733080

Customer Product Code

Shipping Units

80.000 BAG

Container ID

5390

Date Shipped

2015-01-26 (YYYY-MM-DD)

Shipment No. Batch Number

24457688

D180F18011

Retest Date Manufacturing Date

2017-01-07 (YYYY-MM-DD) 2015-01-08 (YYYY-MM-DD)

Quantity

Net Weight

4000.071 LB / 1814.400 KG

Manufacturing Plant

MIDLAND Methocel

Country of Origin

Country of Origin Name

United States

It is hereby certified the material indicated above has been

manufactured in accordance with the FDA cGMPs, Kosher guidelines, was

inspected and tested in accordance with the conditions and the

requirements of current USP, EP and JP for Hypromellose as well as the current specific purity criteria for the food additive Hydroxypropyl

Methyl Cellulose (E464) and unless agreed otherwise conforms in all respects to the specification relevant thereto.

Test	Unit	Lower Limit	Upper Limit	Value	Method
Apparent Viscosity BROOKFIELD 2% IN WATER, @ 20DEGC	m.Pa.s	2663	4970	3756	Current USP/EP/JP
coss on Drying tesidue on Ignition sh, Sulfated H, 2% in Water ssay, Methoxyl ssay, Hydroxypropoxyl opearance Opearance Opearance Solution Color IS Datch, based on audit te	e e e	5.0 28.0 7.0	5.0 1.5 1.5 8.0 30.0 12.0	1.4 0.4 0.4 6.0 28.8 9.4 Pass	Current USP/EP/JP Current EP Current USP/EP/JP Current USP/EP/JP Current USP/EP/JP Current USP/EP/JP Current EP

Kalchem International, Inc 224 South Main Street - Lindsay, OK 73052 Toll Free 888-298-9905 | FAX: 405-756-2373

## Kalchem International Chemicals & Compounding Supplies

Date

2015-01-26

(YYYY-MM-DD)

Time 18:14:20 (Greenwich Mean Time) Page 2 of 2

UNIVAR USA INC BEDFORD PARK BRANCH

8500.W 68TH ST

BEDFORD PARK IL 60501-1850

Ship From: BAY CITY Whse

BAY CITY

Michigan, United States

be NMT 20 ppm heavy metals (as Pb) and also meets all specification requirements for harmonized identification tests, residual solvents and microbiological limits.

Shari Workentine

Shari Workentine

Dow Pharma & Food Solutions Quality System Specialist

For inquiries please contact Customer Service or local sales

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