

# Kalchem International

## Chemicals & Compounding Supplies

Date: 01/27/2014      Certificate of Analysis      Shipped: 00/00/0000

TRUCK COPY  
 UNIVAR USA INC      Fax:  
 2940 STAFFORD AVE SW  
 WYOMING      MI 49548-1037      UNITED STATES

Cust P.O.: GU-025064      Dlv Note: 72395847 20  
 Cust Ref:      Order No.: 19119134

Material: CARBOWAX(TM) SENTRY(TM) POLYETHYLENE  
 GLYCOL 1450 FLAKE NF, FCC GRADE  
 50 LB BAG      Spec: 00126437-S

Cust Mtl:

Batch: 2L2755S7P2  
 Retest Date: 12/27/2016

Vehicle: P-MLP  
 Ship from: THE DOW CHEMICAL COMPANY      NITRO      WV UNITED STATES

This material meets the requirements of the current U.S.P. / National Formulary and this Dow specification.

Feature	Units	Results	Limits		Method
		2L2755S7P2	Minimum	Maximum	
Molecular Weight	MWUnit	1,481	1,305	1,595	1B-ZMETH-1.3
pH at 25degC	-	6.4	4.5	7.5	1B-ZMETH-16.2
5% aqueous solution					
Water	% wt	0.09	----	1.00	1B-ZMETH-24
1,4-Dioxane	ppm wt	1	----	10	1B-ZMETH-5.1
Ethylene Oxide	ppm wt	0.19	----	1.00	1B-ZMETH-5.1
Color, Pt-Co	-	1	----	18	1B-ZMETH-3.8
25% aqueous solution					
Visc @ 210degF, cSt	cSt	28.5	25.0	32.0	1B-ZMETH-23
Viscosity @ 20degC	cSt	42	30	44	1B-ZMETH-23
50% wt aqueous solution					
Compl&Color of sol.		Passes			DOWM 101924-E01A
not more than slightly hazy					

Although every batch may not be tested, this material meets the following: Free EO < 1ppm by wt; Heavy Metals - 5 ppm by wt, max.; Residue on Ignition - 0.1 wt%, max.; Total EG/DEG - 0.2 wt%, max.. This product contains BHT, nominal concentration 100 ppm

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

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Original Manufacture/Location of Manufacture:

55/S7=The Dow Chemical Company, St. Charles Operations, E-Park Plant, Highway 3142, Hahnville, LA 70057 (previously known as Taft), 800-331-6451.

Bulk SENTRY- PEGs: The Dow Chemical Company, St. Charles Operations, E-Park Plant

Packaged SENTRY- PEGs: Manufacturing: The Dow Chemical Company, St. Charles Operations, E-Park Plant; Packaging: The Dow Chemical Company, St. Charles Operations, E-Park Plant

Quality Coordinator  
Specialty Chemicals

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