



# PRODUCT INFORMATION

## CHEMPOL<sup>®</sup> MPS 1800-C

Polymers Suggested Starting Formulation

[www.ccponline.com](http://www.ccponline.com)

URETHANE CLEAR

2.08 VOC

<u>INGREDIENTS</u>	<u>POUNDS</u>	<u>GALLONS</u>
CHEMPOL <sup>®</sup> MPS 1800	621.66	77.71
<sup>1</sup> 12% Cobalt	3.20	0.38
<sup>2</sup> 5% Calcium	10.97	1.45
<sup>3</sup> 12% Zirconium	11.41	1.41
<sup>4</sup> Activ-8	8.67	1.01
Adjust to desired viscosity with:		
Mineral Spirits	<u>116.21</u>	<u>18.04</u>
	772.12	100.00

B672-179B

November 2009

### PAINT PROPERTIES

% solids by weight	73.1
% solids by volume	68.7
Viscosity, #3 Zahn Cup	30-40 seconds
VOC, pounds / gallon	2.08
grams / liter	249

### FILM PROPERTIES

Dry times:	1.5-mil Bird Drawdown over glass
Set to touch:	3 hours
500g Zapon	5 hours
Dry hard:	6 hours
Gloss (20°/60°)	83 / 95
Taber Abrasion:	CS-10 Abrasion Wheels, 1000 g Load
	14.8 mg Loss / 100 cycles

**Technology Description**

CHEMPOL MPS 1800 is a high solids urethane modified oil based on CCP's revolutionary MPS technology. MPS is based on a unique sucrose ester that is used to modify specifically designed resin compositions to provide optimum performance and low VOC content.

**Formulation Features**

High organic renewable content

High solids and low VOC

High crosslink density

Solvent-based Oil-Modified Urethane Resin

**Benefits**

Lower ecological and environmental impacts than other polyurethane clear finishes

Lower exposure to solvents with potential health impacts compared with traditional OMU finishes

Good abrasion resistance and general toughness

Natural light amber appearance over wood. High gloss development.

**FORMULATION NOTES****Ingredient**

<sup>1</sup>Cobalt 12%  
<sup>2</sup>Calcium 5%  
<sup>3</sup>Zirconium 12%  
<sup>4</sup>Activ-8

**Description**

Surface Drier  
 Auxiliary Drier  
 Auxiliary Drier  
 Chelating Agent

**Supplier**

OMG Group, Inc.  
 OMG Group, Inc.  
 OMG Group, Inc.  
 R.T. Vanderbilt

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**COOK COMPOSITES AND POLYMERS CO.**  
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