



# VOC Regulations for Adhesives and Sealants

## Products 16 fl oz or LESS

(Including All Sizes of Aerosol Adhesives)

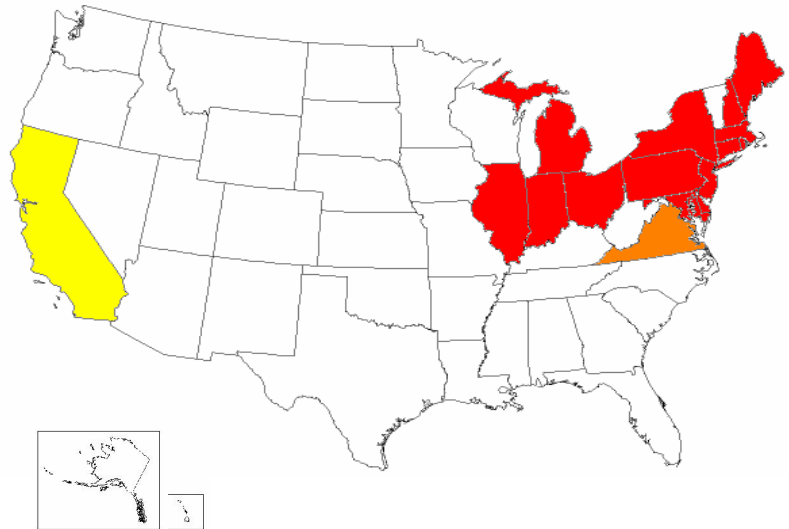
REGULATIONS CURRENT AS OF  
APR 2012



### Regulated States

STATE	EFFECTIVE DATE	SELL THROUGH EXPIRES
CALIFORNIA *	SEE WEBSITE	SEE WEBSITE
CONNECTICUT	1/1/2009	UNLIMITED
DELAWARE	5/1/2009	UNLIMITED
ILLINOIS	7/1/2009	UNLIMITED
INDIANA	6/1/2011	UNLIMITED
MAINE	1/1/2009	UNLIMITED
MARYLAND	1/1/2009	UNLIMITED
MASSACHUSETTS	1/1/2009	UNLIMITED
MICHIGAN	1/29/2007	UNLIMITED
NEW HAMPSHIRE	1/1/2007	UNLIMITED
NEW JERSEY	1/1/2009	UNLIMITED
NEW YORK	10/15/2009	UNLIMITED
PENNSYLVANIA	1/1/2009	UNLIMITED
OHIO	1/1/2009	UNLIMITED
RHODE ISLAND	7/1/2009	UNLIMITED
WASH DC	3/1/2011	UNLIMITED
VIRGINIA *	8/1/2010	UNLIMITED

\* Please see below for specific information



### California

#### Adhesives Currently Effective

Construction, Panel and Floor Covering Adhesive has a **7%** VOC Regulation

#### Sealants Currently Effective

Non-Chemically Curing Sealant or Caulking VOC regulation has dropped to **1.5%**

#### CARB (California Air Resources Board)

regulates the whole state for Consumer Products such as adhesives and sealants that are 16 fl oz or smaller.

**Effective Dates May Vary**

### Virginia

Only the following Northern counties and cities in the State of Virginia are regulated:

Counties	Cities
Arlington	Alexandria
Fairfax	Falls Church
Loudon	Fairfax
Prince William	Fredericksburg
Spotsylvania	Manassas
Stafford	Manassas Park



Please contact Henkel's Regulatory Affairs Department if you have additional questions/comments 1-440-250-7700.

# VOC Regulations for Adhesives and Sealants Products LARGER than 16 fl oz



REGULATIONS CURRENT AS OF  
**APR 2012**

## Regulated States



STATE	EFFECTIVE DATE	SELL THROUGH EXPIRES
CALIFORNIA *	SEE WEBSITE	SEE WEBSITE
CONNECTICUT	1/1/2009	UNLIMITED
DELAWARE	5/1/2009	UNLIMITED
MAINE	1/1/2011	UNLIMITED
MARYLAND	1/1/2009	UNLIMITED
NEW JERSEY	1/1/2009	UNLIMITED
NEW YORK	9/30/2010	12/31/2011
RHODE ISLAND	7/1/2009	UNLIMITED
WASH DC	3/1/2011	UNLIMITED
PENNSYLVANIA	1/1/2012	UNLIMITED
VIRGINIA *	8/1/2010	UNLIMITED
MASSACHUSETTS	Proposed 5/1/2012	N/A

\* Please see below for specific information

## California

## 35 Air Districts

### California Air Districts



Each air district could have differing limits, product categories and effective dates. Please refer to the district website.

Thirteen (13) air districts have VOC regulations for products larger than 16 fl oz:

- Antelope Valley AQMD**
- Shasta County AQMD**
- Tehama County APCD**
- Bay Area AQMD**
- El Dorado APCD**
- Placer County APCD**
- Sacramento Metro AQMD**
- San Diego APCD**
- San Joaquin APCD**
- Santa Barbara APCD**
- South Coast AQMD**
- Ventura County APCD**
- Yolo-Solano AQMD**

## Virginia



Only the following Northern counties and cities in the State of Virginia are regulated:

- | <u>Counties</u> | <u>Cities</u>  |
|-----------------|----------------|
| Arlington       | Alexandria     |
| Fairfax         | Falls Church   |
| Loudon          | Fairfax        |
| Prince William  | Fredericksburg |
| Spotsylvania    | Manassas       |
| Stafford        | Manassas Park  |

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# Construction Adhesives and Sealants

VOC - LEED® - GREENGUARD®



Products highlighted in green meet the standards of each category  
 - VOC compliance, LEED® Building Standards, and  
 GREENGUARD® Certification

REGULATIONS CURRENT AS OF  
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IDH#	PRODUCT NAME	SIZE	Sellable in VOC Regulated Areas	LEED Standards	GREENGUARD®
<b>OSI® GREEN SERIES™</b>					
1390014	OSI® GreenSeries™ Acrylic Urethane Indoor/Outdoor Sealant	10 OZ	Green	Green	Green
1498717	OSI® GreenSeries™ F-38 Drywall & Panel Construction Adhesive	28 OZ	Green	Green	Green
1498719	OSI® GreenSeries™ SF- 450 Heavy Duty Construction & Subfloor Adhesive	28 OZ	Green	Green	Green
1183480	OSI® GreenSeries™ Pro-Foam II™ Minimally Expanding Sealant	29 OZ	Green	Green	Green
1496542	OSI® GreenSeries™ SC-175 Draft & Acoustical Sound Sealant	28 OZ	Green	Green	Green
1390035	OSI® GreenSeries™ FlameSeal® Fire, Smoke & Draft Stop Sealant	10 OZ	Green	Green	Green
TBA	OSI® GreenSeries™ FlameSeal® Fire, Smoke & Draft Stop Sealant	29 OZ	Green	Green	Green
<b>OSI WINTeQ™</b>					
1443841	OSI® TeQ::Foam™ Windows & Doors	22.25 OZ	Green	Green	Green
1003802	OSI® TeQ::Seal™ Window Flange Sealant	10 OZ	Green	Green	Green
<b>OSI TRIMTeQ™</b>					
1538788	OSI® TeQ::Bond™	4 OZ	Green	Green	Green
1429651	OSI® TeQ::Mount™	10 OZ	Green	Green	Green
<b>OSI® QUAD™</b>					
827839	OSI® Quad™ Non-VOC (White) Non-Regulated States	10 OZ	Green	Green	Green
1638674	OSI® Quad™ 1.5% VOC (White) For California Regulatory Requirements	10 OZ	Green	Green	Green
855144	OSI® Quad™ 4% VOC (White) For All Regulated States Except California	10 OZ	Yellow	Green	Green
see price list	OSI® Quad™ 1.5% VOC (all colors) For All Regulated & Non-Regulated Sta	10 OZ	Green	Green	Green
827837	OSI® Quad™ (Clear) For All Regulated and Non-Regulated States	10 OZ	Green	Green	Green
<b>OSI®</b>					
see price list	OSI® EP-1000 Enhanced Polyurethane Sealant - (all colors)	10 OZ	Green	Green	Green
see price list	OSI® SBR-100™ Window and Siding Caulk (all colors)	10 OZ	Green	Green	Green
827747	OSI® SBR-100™ Window and Siding Caulk	28 OZ	Green	Green	Green
see price list	OSI® SBR-100™ Window and Siding Caulk VOC (all colors)	10 OZ	Yellow	Green	Green
see price list	OSI® H2U™ High Performance Acrylic Urethane Sealant (all colors)	10 OZ	Green	Green	Green
see price list	OSI® VP-275™ Multi-Purpose Silicone Sealant (all colors)	10 OZ	Green	Green	Green
see price list	OSI® HM-270™ Construction Silicone Sealant (all colors)	10 OZ	Green	Green	Green
1630096	OSI® F-38™ Drywall & Framing Adhesive VOC Compliant (all 50 states)	28 OZ	Green	Green	Green
see price list	OSI® GS121 Gutter & Seam Sealant (all colors)	10 OZ	Green	Green	Green
see price list	OSI® GS121 Gutter and Seam Sealant VOC (all colors)	10 OZ	Yellow	Green	Green
see price list	OSI® GS125 Gutter Sealer VOC (all colors)	5 OZ	Yellow	Green	Green
see price list	OSI® GS125 Gutter Sealer (all colors)	5 OZ	Green	Green	Green
1460731	OSI® Micro Premium Gutter Sealer	5 OZ	Green	Green	Green
855082	OSI® Micro Premium Gutter Sealer	10 OZ	Green	Green	Green
1305812	OSI® SC-170™ Acoustical Sound Sealant	28 OZ	Green	Green	Green
827627	OSI® QB-300™ Multi Purpose Construction Adhesive	28 OZ	Green	Green	Green
827628	OSI® QB-300™ Multi Purpose Construction Adhesive	5 GL	Green	Green	Green
TBA	OSI® SF-450™ Heavy Duty Construction & Subfloor Adhesive (VOC all 50	10 OZ	Green	Green	Green
1596529	OSI® SF-450™ Heavy Duty Construction & Subfloor Adhesive (VOC all 50	28 OZ	Green	Green	Green
827631	OSI® SW-325™ Shear & Drywall Adhesive	28 OZ	Green	Green	Green
827653	OSI® FRP-555™ Latex FRP Adhesive	1 GL	Green	Green	Green
827654	OSI® FRP-555™ Latex FRP Adhesive	3.5 GL	Green	Green	Green
827655	OSI® FRP-555™ Latex FRP Adhesive	5 GL	Green	Green	Green
see price list	OSI® RT-600™ VOC Roof Tile Adhesive (all colors)	10 OZ	Green	Green	Green
827579	OSI® RF-140™ Roof & Flashing Sealant	10 OZ	Green	Green	Green

Cannot be sold in California

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# Construction Adhesives and Sealants

## VOC - LEED® - GREENGUARD®

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APR 2012

Products highlighted in green meet the standards of each category  
- VOC compliance, LEED® Building Standards, and  
GREENGUARD® Certification

IDH#	PRODUCT NAME	SIZE	Sellable in VOC Regulated Areas	LEED Standards	GREENGUARD®
<b>Loctite® PL®</b>					
1390595	PL Premium® Construction Adhesive	10 FL OZ			
1390594	PL Premium® Construction Adhesive	28 FL OZ			
1451588	PL Premium® Construction Adhesive	4 FL OZ			
1614905	PL Premium® Construction Adhesive	1 GAL			
1417170	PL Premium® Fast Grab Construction Adhesive	10 FL OZ			
1650980	PL 100® Drywall Construction Adhesive	28 FL OZ			
1390603	PL 200® Projects Construction Adhesive	10 FL OZ			
1390602	PL 200® Projects Construction Adhesive	28 FL OZ			
1421941	PL 300® Foamboard Construction Adhesive	10 FL OZ			
1421930	PL 300® Foamboard Construction Adhesive	28 FL OZ			
1390601	PL 375™ Heavy Duty Construction Adhesive	10 FL OZ			
1390599	PL 375™ Heavy Duty Construction Adhesive	28 FL OZ			
1652275	PL 400® Subfloor Construction Adhesive	10 FL OZ			
1602142	PL 400® Subfloor Construction Adhesive	28 FL OZ			
1654392	PL 500® Landscape Block Construction Adhesive	10 FL OZ			
1602122	PL 500® Landscape Block Construction Adhesive	28 FL OZ			
1402262	PL 505™ Paneling and Trim Construction Adhesive	10 FL OZ			
1538750	PL 510™ Paneling and Wood Construction Adhesive	10 FL OZ			
1650979	PL 520™ Mirror Construction Adhesive	10 FL OZ			
1402263	PL 550™ Tub Surround Construction Adhesive	10 FL OZ			
1618522	PL S10™ Concrete Crack Sealant	10 FL OZ			
1618150	PL S20™ Self Leveling Concrete Crack Sealant	10 FL OZ			
1618172	PL S20™ Self Leveling Concrete Crack Sealant	28 FL OZ			
1618181	PL S30™ Roof and Flashing Sealant	10 FL OZ			
see price list	PL S40™ Window Door and Siding Sealant (all colors)	10 FL OZ			
<b>Loctite® Power Grab®</b>					
1589155	Power Grab® Clear All Purpose Construction Adhesive	9 FL OZ			
1589199	Power Grab® Clear All Purpose Construction Adhesive	6 OZ			
1589346	Power Grab® Clear All Purpose Construction Adhesive	6 FL OZ			
1589727	Power Grab® Clear All Purpose Construction Adhesive	3 FL OZ			
1589155	Power Grab® Clear Heavy Duty Construction Adhesive	9 FL OZ			
1589158	Power Grab® Clear Molding & Paneling Construction Adhesive	9 FL OZ			
1363138	Power Grab® Tub Surround Construction Adhesive	10 FL OZ			
<b>Loctite® Polyseamseal®</b>					
see price list	Polyseamseal® All Purpose Sealant (all colors)	10 FL OZ			
see price list	Polyseamseal® All Purpose Sealant (all colors)	5.5 FL OZ			
see price list	Polyseamseal® Tub and Tile Sealant (all colors)	10 FL OZ			
see price list	Polyseamseal® Tub and Tile Sealant (all colors)	5.5 FL OZ			
see price list	Polyseamseal® Rain Guard™ Sealant (all colors)	10 FL OZ			
see price list	Polyseamseal® 100% Silicone Sealant (all colors)	10 FL OZ			
see price list	Polyseamseal® Acrylic Caulk with Silicone (all colors)	10 FL OZ			
1511100	Polyseamseal® Painter's Caulk	10 FL OZ			



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# VOC - LEED® - GREENGUARD® FAQ's



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## What are VOCs and why are they regulated?

The EPA defines Volatile Organic Compounds generally as any compound of carbon (some exceptions) which participates in atmospheric photochemical reactions. When VOCs mix with air and sunlight they can create smog and cause negative health effects. The EPA has set standards for smog (ground-level ozone) levels. For the states that do not meet these standards, they must have State Implementation Plans to reduce the smog levels, therefore regulations on VOCs are required in certain areas.

## How do VOC regulations work?

Regulations prohibit the sale of non-VOC compliant products in certain locations which can be broken down to a State, County, or District level. The regulations also differ based on the size of the product. Consumer products (16 fluid ounces or less) are subject to different regulations compared to industrial products (Larger than 16 fluid ounces).

## What fines or penalties may I be subject to if I do not follow these VOC laws?

Each state has its own enforcement. Fines are levied for sale or use of non compliant product in a regulated state. California has inspectors in the field and fines and penalties can be thousands of dollars per day.

## Will other states not currently regulated adopt similar regulations? What about Canada?

States may. Most of the mid states follow the Federal EPA rules but if certain locales need to meet the stringent air pollution limits, some states may adopt their own rules. **Canada** has proposed a rule much like CARB (California Air Resource Board) and OTC (Ozone Transport Commission) for consumer products. We have no definitive estimate as of early 2012.

## What are effective and sell-through dates?

**Effective Date** is the date on which the rule and associated limits are enforceable. **Sell Through** is the period of time when products manufactured prior to effective date can be sold, so long as compliant date code is used. \*Note: Some states have sell through dates with specific end dates while others have unlimited sell through if manufactured prior to the effective date

## My business is in a regulated state but I distribute product out of state (non-regulated state), may I still purchase non-VOC product?

Yes. Customers can purchase non compliant product for distribution into compliant regions/states as long as they have signed a copy of Henkel's VOC Exception Form Letter.

## Where can I find a copy of the VOC regulations map?

Contact Henkel Regulatory Affairs at 440-250-7700 or visit the state regulation website.

## What is LEED®?

LEED® (Leadership in Energy and Environmental Design) certification provides independent, third-party verification that a building, home or community was designed and built using strategies aimed at achieving high performance in key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality. Developed by the U.S. Green Building Council (USGBC) in 2000, the LEED rating systems are developed through an open, consensus-based process led by LEED committees. The products highlighted below fall within LEED Green Standards.



## What is the GREENGUARD®?

The GREENGUARD® Environmental Institute (GEI) has established performance-based standards to define products and processes with low chemical and particle emissions for use indoors. The Indoor Air Quality Certification Program standards establish certification procedures including test methods, allowable emission levels, product sample collection and handling, testing type and frequency as well as program application processes, toxicity limits and acceptance.



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# VOC Regulations for Adhesives and Sealants Information Source

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**10 fl oz**

16 fl oz or LESS

STATE	EFFECTIVE DATE	SELL THROUGH EXPIRES	STATE RULE	STATE WEBSITE
CALIFORNIA *	SEE WEBSITE	SEE WEBSITE	SEE WEBSITE	<a href="http://www.arb.ca.gov/drdb/drdbtxt.htm">http://www.arb.ca.gov/drdb/drdbtxt.htm</a>
CONNECTICUT	1/1/2009	UNLIMITED	22a-174-44	<a href="http://www.ct.gov">http://www.ct.gov</a>
DELAWARE	5/1/2009	UNLIMITED	1124	<a href="http://www.dcesp.delaware.gov/whs/eem/AQM/Pages/AirRegulations.aspx">http://www.dcesp.delaware.gov/whs/eem/AQM/Pages/AirRegulations.aspx</a>
ILLINOIS	7/1/2009	UNLIMITED	Title 35 B	<a href="http://esa.state.il.us/regulations/index.html">http://esa.state.il.us/regulations/index.html</a>
INDIANA	6/1/2011	UNLIMITED	326 IAC 8	<a href="http://www.in.gov/legislative/ia/">http://www.in.gov/legislative/ia/</a>
MAINE	1/1/2009	UNLIMITED	06 096 - Ch 149	<a href="http://www.maine.gov/dep/air/">http://www.maine.gov/dep/air/</a>
MARYLAND	1/1/2009	UNLIMITED	26.11.35.01	<a href="http://www.dsd.state.md.us">http://www.dsd.state.md.us</a>
MASSACHUSETTS	1/1/2009	UNLIMITED	310 CMR	<a href="http://www.mass.gov/dep/air/laws/regulat.htm">http://www.mass.gov/dep/air/laws/regulat.htm</a>
MICHIGAN	1/29/2007	UNLIMITED	2005-035EQ	<a href="http://www.michigan.gov/dep">http://www.michigan.gov/dep</a>
NEW HAMPSHIRE	1/1/2007	UNLIMITED	Env-A 4100	<a href="http://des.nh.gov/organization/commissioner/legal/rules/">http://des.nh.gov/organization/commissioner/legal/rules/</a>
NEW JERSEY	1/1/2009	UNLIMITED	7:27-26	<a href="http://www.state.nj.us/dep/aqm/">http://www.state.nj.us/dep/aqm/</a>
NEW YORK	10/15/2009	UNLIMITED	235-1	<a href="http://www.dnc.ny.gov/">http://www.dnc.ny.gov/</a>
PENNSYLVANIA	1/1/2009	UNLIMITED	25:130	<a href="http://www.pabulletin.com/">http://www.pabulletin.com/</a>
OHIO	1/1/2009	UNLIMITED	3745-112	<a href="http://www.epa.ohio.gov/">http://www.epa.ohio.gov/</a>
RHODE ISLAND	7/1/2009	UNLIMITED	44	<a href="http://www.dem.ri.gov/pubs/reg/">http://www.dem.ri.gov/pubs/reg/</a>
WASH DC	3/1/2011	UNLIMITED	20-7	<a href="http://dcregs.dc.gov/default.aspx">http://dcregs.dc.gov/default.aspx</a>
VIRGINIA *	8/1/2010	UNLIMITED	9 VAC 5-40	<a href="http://www.deq.state.va.us/air">http://www.deq.state.va.us/air</a>

**28 fl oz**

LARGER than 16 fl oz

STATE	EFFECTIVE DATE	SELL THROUGH EXPIRES	RULE	STATE WEBSITE
CALIFORNIA *	SEE WEBSITE	SEE WEBSITE	SEE WEBSITE	<a href="http://www.arb.ca.gov/drdb/drdbtxt.htm">http://www.arb.ca.gov/drdb/drdbtxt.htm</a>
CONNECTICUT	1/1/2009	UNLIMITED	22a-174-44	<a href="http://www.ct.gov">http://www.ct.gov</a>
DELAWARE	5/1/2009	UNLIMITED	1124	<a href="http://www.dcesp.delaware.gov/whs/eem/AQM/Pages/AirRegulations.aspx">http://www.dcesp.delaware.gov/whs/eem/AQM/Pages/AirRegulations.aspx</a>
MAINE	1/1/2011	UNLIMITED	06 096 - Ch 149	<a href="http://www.maine.gov/dep/air/">http://www.maine.gov/dep/air/</a>
MARYLAND	1/1/2009	UNLIMITED	26.11.35.01	<a href="http://www.dsd.state.md.us">http://www.dsd.state.md.us</a>
NEW JERSEY	1/1/2009	UNLIMITED	7:27-26	<a href="http://www.state.nj.us/dep/aqm/">http://www.state.nj.us/dep/aqm/</a>
NEW YORK	9/30/2010	12/31/2011	235-1	<a href="http://www.dec.ny.gov/">http://www.dec.ny.gov/</a>
RHODE ISLAND	7/1/2009	UNLIMITED	44	<a href="http://www.dem.ri.gov/pubs/reg/">http://www.dem.ri.gov/pubs/reg/</a>
WASH DC	3/1/2011	UNLIMITED	20-7	<a href="http://dcregs.dc.gov/default.aspx">http://dcregs.dc.gov/default.aspx</a>
PENNSYLVANIA	1/1/2012	UNLIMITED	25:130	<a href="http://www.pabulletin.com/">http://www.pabulletin.com/</a>
VIRGINIA *	8/1/2010	UNLIMITED	9 VAC 5-40	<a href="http://www.deq.state.va.us/air">http://www.deq.state.va.us/air</a>
MASSACHUSETTS	Proposed 5/1/2012	N/A		Not Yet Published



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