

Henkel

VOC Regulations for Adhesives and Sealants

Products 16 fl oz or LESS

(Including All Sizes of Aerosol Adhesives)

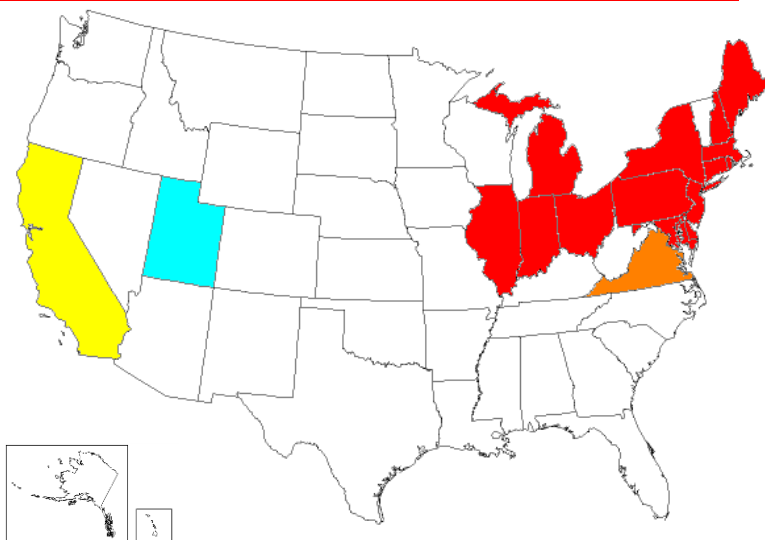
REGULATIONS CURRENT AS OF
DECEMBER 2014

10 fl oz

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 - 7/1/2012	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 - 1/1/2015	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
UTAH *	9/1/2014	UNLIMITED

* Please see below for specific information



California, Utah, & New Hampshire

Currently Effective – CA & UT Effective 1/1/2017 – NH

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

California

Currently Effective

Non-Chemically Curing Sealant/Caulking Compound
VOC limit has dropped to **1.5%**

Chemically Curing Sealant/Caulking Compound
VOC limit has dropped to **3%**

Virginia

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

Counties

Arlington
Fairfax
Charles City
Chesterfield
Hanover
Henrico
Loudon
Prince George
Prince William

Cities

Alexandria
Colonial Heights
Falls Church
Fairfax
Fredericksburg
Manassas
Manassas Park
Petersburg
Richmond

Utah

Only the following counties in the State of Utah are regulated:

Counties

Box Elder
Davis
Tooele
Weber
Cache
Salt Lake
Utah

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

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

LOCTITE

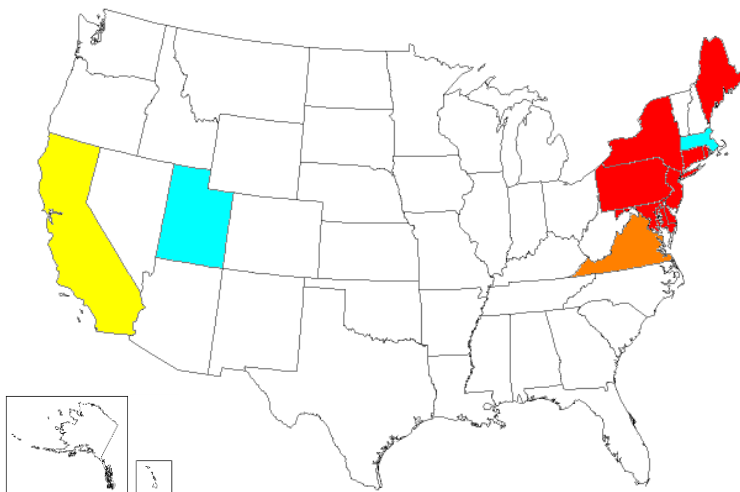


VOC Regulations for Adhesives and Sealants Products LARGER than 16 fl oz



REGULATIONS CURRENT AS OF
DECEMBER 2014

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	1/1/2015	9/1/2015
UTAH *	9/1/2014	UNLIMITED

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

Virginia

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

<u>Counties</u>	<u>Cities</u>
Arlington	Alexandria
Charles City	Colonial Heights
Chesterfield	Falls Church
Hanover	Fairfax
Henrico	Fredericksburg
Fairfax	Hopewell
Loudon	Manassas
Prince George	Manassas Park
Prince William	Petersburg
Spotsylvania	Richmond
Stafford	

Utah

Only the following counties in the State of Utah are regulated:

Box Elder	Cache
Davis	Salt Lake
Tooele	Utah
Weber	

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



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®
OSI® GREEN SERIES™					
1390014	OSI® GreenSeries™ Acrylic Urethane Indoor/Outdoor Sealant	10 OZ			
1498717	OSI® GreenSeries™ F-38 Drywall & Panel Construction Adhesive	28 OZ			
1498719	OSI® GreenSeries™ SF- 450 Heavy Duty Construction & Subfloor Adhesive	28 OZ			
1911051	OSI SF450 LATEX S2ADH 28OZ 12SC	28 OZ			
1538743	OSI® GreenSeries® Pro Foam II® Minimally Expanding, Insulating Foam	24 OZ			
1496542	OSI® GreenSeries™ SC-175 Draft & Acoustical Sound Sealant	28 OZ			
1390035	OSI® GreenSeries™ FlameSeal® Fire, Smoke & Draft Stop Sealant	10 OZ			
OSI WINTeQ™					
1443841	OSI® TeQ::Foam™ Windows & Doors	22.25 OZ			
1866185	OSI QUAD FOAM 600ML 21.1 OZ 12SC	21.10 OZ			
1003802	OSI® TeQ::Seal™ Window Flange Sealant	10 OZ			
OSI TRIMTeQ™					
1538788	OSI® TeQ::Bond™	4 OZ			
1429651	OSI® TeQ::Mount™	10 OZ			
OSI® QUAD™					
827839	OSI® Quad™ Non-VOC (White) Non-Regulated States	10 OZ			
1638674	OSI® Quad™ 1.5% VOC (White) For California Regulatory Requirements	10 OZ			
1642878	OSI® Quad™ 4% VOC (White) For All Regulated States Except	10 OZ			
see price list	OSI® Quad™ 1.5% VOC (all colors) For All Regulated & Non-Regulated States	10 OZ			
827837	OSI® Quad™ (Clear) For All Regulated and Non-Regulated States	10 OZ			
1896952	OSI Quad Invisible 000 10 oz 12CC	9.5 OZ			
OSI®					
1593068	OSI® EP-1000 Enhanced Polyurethane Sealant White	10 OZ			
see price list	OSI® SBR-100™ Window and Siding Caulk (all colors)	10 OZ			
see price list	OSI® SBR-100™ Window and Siding Caulk VOC (all colors)	10 OZ			
see price list	OSI® H2U™ High Performance Acrylic Urethane Sealant (all colors)	10 OZ			
see price list	OSI® VP-275™ Multi-Purpose Silicone Sealant (all colors)	10 OZ			
see price list	OSI® HM-270™ Construction Silicone Sealant (all colors)	10 OZ			
1630096	OSI® F-38™ Drywall & Framing Adhesive VOC Compliant (all 50 states)	28 OZ			
see price list	OSI® GS121 Gutter & Seam Sealant (all colors)	10 OZ			
see price list	OSI® GS121 Gutter and Seam Sealant VOC (all colors)	10 OZ			
see price list	OSI® GS125 Gutter Sealer VOC (all colors)	5 OZ			
see price list	OSI® GS125 Gutter Sealer (all colors)	5 OZ			
1460731	OSI® Micro Premium Gutter Sealer	5 OZ			
855082	OSI® Micro Premium Gutter Sealer	10 OZ			
1943973	OSI 10 OZ GS121REGSLN CLR 12CC	10 OZ			
1305812	OSI® SC-170™ Acoustical Sound Sealant	28 OZ			
827627	OSI® QB-300™ Multi Purpose Construction Adhesive	28 OZ			
827628	OSI® QB-300™ Multi Purpose Construction Adhesive	5 GL			
1626875	OSI® SF-450™ Heavy Duty Construction & Subfloor Adhesive (VOC all)	10 OZ			
1596529	OSI® SF-450™ Heavy Duty Construction & Subfloor Adhesive (VOC all)	28 OZ			
827631	OSI® SW-325™ Shear & Drywall Adhesive	28 OZ			
827653	OSI® FRP-555™ Latex FRP Adhesive	1 GL			
827654	OSI® FRP-555™ Latex FRP Adhesive	3.5 GL			
827655	OSI® FRP-555™ Latex FRP Adhesive	5 GL			
see price list	OSI® RT-600™ VOC Roof Tile Adhesive (all colors)	10 OZ			
827579	OSI® RF-140™ Roof & Flashing Sealant	10 OZ			
1938618	OSI RF140 10 OZ SLN 12CC	10 OZ			
1943974	OSI SF450 PU ADH 28 OZ 12CC	28 OZ			
1927125	OSI QUAD FOAM 2x2 471G CAN 12SC	16 OZ			
OSI® QUAD™ MAX					
see price list	OSI 9.5OZ QDMAX SLNWHIT 12CC	9.5 OZ			

Cannot be sold
in California

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

Henkel



Construction Adhesives and Sealants

VOC - LEED® - GREENGUARD®

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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®
Loctite® PL®					
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			
1693636	PL 530™ Mirror, Marble and Granite Adhesive	10 FL OZ			
Loctite® Power Grab®					
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			
Loctite® Polyseamseal®					
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			
1723847	Polyseamseal® Rain Guard™ Sealant	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			
1794612	Polyseamseal® Painter's Express	10 FL OZ			

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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 manufacture, sale, and/or use 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 late 2013.

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 individual state regulation website listed on the respective map page

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.





VOC Regulations for Adhesives and Sealants Information Source

REGULATIONS CURRENT AS OF
DECEMBER 2014

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	http://www.arb.ca.gov/drdb/drdbtxt.htm
CONNECTICUT	1/1/2009	UNLIMITED	22a-174-44	http://www.ct.gov
DELAWARE	5/1/2009	UNLIMITED	1141	http://www.dnrec.delaware.gov/ws/awm/AQM/Pages/AirRegulations.aspx
ILLINOIS	7/1/2009 - 7/1/2012	UNLIMITED	Title 35(B)223.200-285	http://epa.state.il.us/regulations/index.html
INDIANA	6/1/2011	UNLIMITED	326 IAC 8	http://www.in.gov/legislative/iac/
MAINE	1/1/2009	UNLIMITED	06 096 - Ch 149	http://www.maine.gov/dep/air/
MARYLAND	1/1/2009	UNLIMITED	26.11.35.01	http://www.dsd.state.md.us
MASSACHUSETTS	1/1/2009	UNLIMITED	310 CMR	http://www.mass.gov/dep/air/laws/regulation.htm
MICHIGAN	1/29/2007	UNLIMITED	2005-035EQ	http://www.michigan.gov/deg
NEW HAMPSHIRE *	1/1/2007 - 1/1/2015	UNLIMITED	Env-A 4100	http://des.nh.gov/organization/commissioner/legal/rules/
NEW JERSEY	1/1/2009	UNLIMITED	7:27-26	http://www.state.nj.us/dep/agm/
NEW YORK	10/15/2009	UNLIMITED	235-1	http://www.dec.ny.gov/
PENNSYLVANIA	1/1/2009	UNLIMITED	25:130	http://www.pabulletin.com/
OHIO	1/1/2009	UNLIMITED	3745-112	http://www.epa.ohio.gov/
RHODE ISLAND	7/1/2009	UNLIMITED	44	http://www.dem.ri.gov/pubs/regs/
WASH DC	3/1/2011	UNLIMITED	20-7	http://dcregs.dc.gov/default.aspx
VIRGINIA *	8/1/2010	UNLIMITED	9 VAC 5-45-6	http://www.deq.state.va.us/programs
UTAH *	9/1/2014	UNLIMITED	307-357	http://www.airquality.utah.gov/

28 fl oz

LARGER than 16 fl oz

STATE	EFFECTIVE DATE	SELL THROUGH EXPIRES	RULE	STATE WEBSITE
CALIFORNIA *	SEE WEBSITE	SEE WEBSITE	SEE WEBSITE	http://www.arb.ca.gov/drdb/drdbtxt.htm
CONNECTICUT	1/1/2009	UNLIMITED	22a-174-44	http://www.ct.gov
DELAWARE	5/1/2009	UNLIMITED	1141	http://www.dnrec.delaware.gov/ws/awm/AQM/Pages/AirRegulations.aspx
MAINE	1/1/2011	UNLIMITED	06 096 - Ch 149	http://www.maine.gov/dep/air/
MARYLAND	1/1/2009	UNLIMITED	26.11.35.01	http://www.dsd.state.md.us
NEW JERSEY	1/1/2009	UNLIMITED	7:27-26	http://www.state.nj.us/dep/agm/
NEW YORK	9/30/2010	12/31/2011	235-1	http://www.dec.ny.gov/
RHODE ISLAND	7/1/2009	UNLIMITED	44	http://www.dem.ri.gov/pubs/regs/
WASH DC	3/1/2011	UNLIMITED	20-7	http://dcregs.dc.gov/default.aspx
PENNSYLVANIA	1/1/2012	UNLIMITED	25:130	http://www.pabulletin.com/
VIRGINIA *	8/1/2010	UNLIMITED	9 VAC 5-45-4	http://www.deq.state.va.us/programs
MASSACHUSETTS	1/1/2015	9/1/2015	310 CMR 7.18(30)	http://www.mass.gov/eea/agencies/massdep/air/regulations
UTAH *	9/1/2014	UNLIMITED	307-342	http://www.airquality.utah.gov/



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