



## GREENGUARD Emission Criteria

*For use with GREENGUARD Certification Program<sup>SM</sup> for Low Emitting Products*

### **Adhesives/Sealants – Applicable to:**

- General construction adhesives
- HVAC adhesives
- Wallcovering adhesives
- Flooring adhesives
- Surfacing adhesive
- Surface sealants
- Furniture construction adhesive
- Tile and stone adhesives

	<b>Standard</b>	<b>OEM</b>
Individual VOCs <sup>1</sup>	≤0.1 TLV	≤0.1 TLV
Formaldehyde	≤0.05 ppm	≤0.025 ppm
4-Phenylcyclohexene	≤0.0065 mg/m <sup>3</sup>	≤0.0033 mg/m <sup>3</sup>
Styrene	≤0.07 mg/m <sup>3</sup>	≤0.035 mg/m <sup>3</sup>
Total VOCs <sup>2</sup>	≤0.5 mg/m <sup>3</sup>	≤0.25 mg/m <sup>3</sup>
Total Aldehydes <sup>3</sup>	≤0.1 ppm	≤0.05 ppm
Listing of measured carcinogens and reproductive toxins as identified by California Proposition 65, the U.S. National Toxicology Program (NTP), and the International Agency on Research on Cancer (IARC) must be provided.		
Any pollutant regulated as a primary or secondary outdoor air pollutant must meet a concentration that will not generate an air concentration greater than that promulgated by the National Ambient Air Quality Standard (U.S. EPA, code of Federal Regulations, Title 40, Part 50).		

<sup>1</sup> Any VOC not listed must produce an air concentration level no greater than 1/10 the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438).

<sup>2</sup> Defined to be the total response of measured VOCs falling within the C<sub>6</sub> – C<sub>16</sub> range, with responses calibrated to a toluene surrogate.

<sup>3</sup> Defined to be the total response of a specific target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2,5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

GREENGUARD Certification affirms that a product's emissions fall within the limits selected by GREENGUARD from reputable third-party risk based criteria, as identified above. GREENGUARD program testing is conducted consistent with a defined protocol and does not measure emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical emissions.