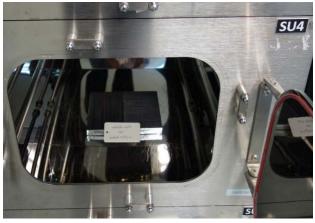


| GREENGUARD CERTIFICATION TEST REPORT |   |   |  |                 |          |  |  |  |  |
|--------------------------------------|---|---|--|-----------------|----------|--|--|--|--|
| Customer Information                 | JESSICA YA<br>366 SONG J                          | KUNSHAN WAYTEX TEXTILE INDUSTRY CO., LTD.<br>ESSICA YANG<br>166 SONG JIA GANG RD, ZHOUSHI TOWN<br>KUNSHAN JIANGSU 215300<br>CHINA |  |                 |          |  |  |  |  |
| Product Description                  | T Will 20 Ser                                     | ies - Woven V   | inyl Flooring 205                                    |                 |          |  |  |  |  |
| Test Group                           | Vinyl Flooring                                    | g - 01  |  |                 |          |  |  |  |  |
| Category                             | Flooring  |   |  |                 |          |  |  |  |  |
| Test Type                            | Certification                                     |   | Year 4   |                 |          |  |  |  |  |
| Test Method                          |   | ssions From Bu  | ertification Program Me<br>uilding Materials, Finish |                 |          |  |  |  |  |
|                                      | Environment                                       | TVOC  | Formaldehyde   | Total Aldehydes | CREL/TLV |  |  |  |  |
|                                      |   | ······································  |  |                 |          |  |  |  |  |
| GREENGUARD                           | Office  | $\checkmark$  | ffice  |                 |          |  |  |  |  |
| GREENGUARD<br>GREENGUARD Gold        | Office<br>Office<br>Classroom                     |   |  |                 |          |  |  |  |  |
|                                      | Office<br>Classroom                               | √   | ✓  | ✓<br>✓          | √        |  |  |  |  |
| GREENGUARD Gold                      | Office<br>Classroom<br>ria<br>PMg Z<br>Ring Zhong | ✓<br>✓<br>✓   | ✓<br>✓   | ✓<br>✓          | √        |  |  |  |  |

| MODELING FOR PREDICTED AIR CONCENTRATION |                           |                   |                      |                     |               |  |  |  |
|--|---------------------------|-------------------|----------------------|---------------------|---------------|--|--|--|
| Certification Program                    | Environment<br>Basis      | Modeling<br>Basis | Surface<br>Area (m²) | Room<br>Volume (m³) | ACH<br>(1/hr) |  |  |  |
| GREENGUARD and GREENGUARD Gold Office    | CDPH/EHLB/Standard Method | floor             | 11.1                 | 30.6                | 0.68          |  |  |  |
| GREENGUARD Gold Classroom                | CDPH/EHLB/Standard Method | floor             | 89.2                 | 231                 | 0.82          |  |  |  |

Note that certain environments and/or modeling scenarios may prevent assessment of low level CREL and TLV analytes due to the emissions being below the lower LOQ (0.04  $\mu$ g). For example, benzene ½ CREL is 1.5  $\mu$ g/m<sup>3</sup>.

#### PHOTOGRAPH OF SAMPLE



#### **GREENGUARD RESULTS SUMMARY**

| Product Description   | ription T Will 20 Series - Woven Vinyl Flooring 205 |                                 |                                  |  |  |  |  |  |  |
|---|---|---------------------------------|----------------------------------|--|--|--|--|--|--|
| GREENG<br>Acceptable I  |   | 168 Hour<br>Product Measurement | Product<br>Compliance<br>for IAQ |  |  |  |  |  |  |
| TVOC <sup>a</sup>   | ≤ 0.5 mg/m³   | 0.053 mg/m <sup>3</sup>         | Yes                              |  |  |  |  |  |  |
| Formaldehyde  | ≤ 0.05 ppm  | < 0.002 ppm                     | Yes                              |  |  |  |  |  |  |
| Total Aldehydes <sup>b</sup>  | ≤ 0.10 ppm  | < 0.002 ppm                     | Yes                              |  |  |  |  |  |  |
| 4-Phenylcyclohexene   | ≤ 0.0065 mg/m³                                      | < 0.003 mg/m <sup>3</sup>       | Yes                              |  |  |  |  |  |  |
| Individual VOCs   | all ≤ 1/10 TLV                                      | c                               | Yes                              |  |  |  |  |  |  |
| <ul> <li>a "TVOC" is the sum of all VOCs measured via TD/GC/MS which elute between n-hexane (C<sub>6</sub>) and n-hexadecane (C<sub>16</sub>) quantified using calibration to a toluene surrogate.</li> <li><sup>b</sup> "Total Aldehydes" is the sum of all measured normal aldehydes from formaldehyde to nonanal, plus benzaldehyde. Heptanal through nonanal are analyzed using TD/GC/MS. The remaining aldehydes are analyzed using HPL/UV methodology. All</li> </ul> |   |                                 |                                  |  |  |  |  |  |  |

aldehydes are quantified to authentic standards.

°All individual VOCs detected met the criteria of less than 1/10 the ACGIH established threshold limit values (TLVs).

#### **PROJECT DESCRIPTION**

This study was conducted using a UL Environment's GREENGUARD test method following the requirements of GREENGUARD Certification program. The product was monitored for emissions of total volatile organic compounds (TVOC), formaldehyde, target list aldehydes, and other individual volatile organic compounds (VOCs) over a 168 hour exposure period. These emissions were measured and the resultant air concentrations were determined for each of the potential pollutants. Determination of compliance is based on predicted air concentrations modeled using the GREENGUARD program room loading.

#### **Report Outline:**

| Table 1          | Environmental Chamber Study Parameters            |
|------------------|---|
| Table 2          | Emission Factors and Predicted Air Concentrations |
| Table 3          | Chamber Concentrations of Identified VOCs         |
| Table 4          | Emission Factors of Identified VOCs               |
| Table 5          | Chamber Concentrations of Target List Aldehydes   |
| Table 6          | Emission Factor of Target List Aldehydes          |
| Table 7          | Supplemental Emissions Information                |
| Chain of Custody | Chain of Custody                                  |
| Appendix 1       | GREENGUARD Gold Results Summary                   |

For UL Environment's technical references and resources click here or

https://industries.ul.com/wp-content/uploads/sites/2/2018/02/Technical-references-and-resources.pdf For Product Evaluation Methodologies information click here or

https://industries.ul.com/wp-content/uploads/sites/2/2018/02/Product-Evaluation-Methodologies-GG.pdf

For Quality Control Program or Environmental Chamber Evaluations information click here or

https://industries.ul.com/wp-content/uploads/sites/2/2018/02/Quality-Control-Procedures.pdf

For RSD, Quality Assurance Report or other quality documents, Request here or contact ULE.

Page 2 of 11

| ENVIRONME                       | ENTAL CHAMBER STUDY PARAMETERS   |
|---------------------------------|--|
| Product Description             | T Will 20 Series - Woven Vinyl Flooring 205  |
| Product Manufacture Date        | May 28, 2019   |
| Product Collection Date         | May 31, 2019   |
| Product Shipping Date           | June 3, 2019   |
| Date Received                   | June 5, 2019   |
| Accredited Laboratory Location* | ULE - Guangzhou  |
| Test Description                | The product was received by ULE Guangzhou Laboratory as packaged<br>and shipped by the customer. The package was visually inspected and<br>stored in a controlled environment immediately following sample<br>check-in. Just prior to loading, the product was unpackaged and<br>prepared for the required loading to expose the finished surfaces only.<br>The sample was placed inside the environmental chamber, and tested<br>according to the specified protocol. |
| Test Period                     | 6/11/2019 - 6/18/2019  |
| Area                            | one-sided area = 0.0369 m <sup>2</sup>   |
| Chamber Volume                  | 0.0879 m³  |
| Product Loading                 | 0.42 m²/m³   |
| Test Conditions                 | 1.00 ± 0.05 ACH<br>50% RH ± 5% RH<br>23°C ± 1°C  |

The temperature range specification is  $23^{\circ}C \pm 1^{\circ}$ . The actual temperature range listed above may vary slightly. If the range is outside this specification, data was reviewed to ensure a negative impact did not occur.

|                 | *Accredited Laboratory Locations   |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|
| Location        | Address  |  |  |  |  |  |  |
| ULE – Marietta  | UL Environment<br>2211 Newmarket Parkway, Marietta, GA 30067-9399 USA  |  |  |  |  |  |  |
| ULE – Guangzhou | UL Verification Services (Guangzhou)<br>1-3F & Room 501, Building 2 (R&D Center A1), No. 25, South Huanshi Avenue,<br>Nansha District, Guangzhou 511458, China |  |  |  |  |  |  |
| ULE - Cabiate   | UL International Italia S.r.I<br>ATTN: IAQ Laboratory<br>Via Europa, 9, I – 22060 – Cabiate (Como), Italia   |  |  |  |  |  |  |
| UL - Shimadzu   | Shimadzu Techno-Research, Inc.<br>1, Nishinokyo-Shimoaicho<br>Nakagyo-ku, Kyoto 604-8436 Japan   |  |  |  |  |  |  |
| KCL             | Korea Conformity Laboratories<br>#805, I-Valley, 149 Gongdan-ro<br>Gunpo-si, Gyeonggi-do, 15849 Korea  |  |  |  |  |  |  |

This test is accredited under the laboratory's ISO/IEC 17025 accreditation issued by International Accreditation Service. Refer to certificate and scope of accreditation TL-441.

| Product Description  | T Will 20 Series - Wo  | oven Vinyl Flooring 20  | 5   |   |  |  |
|--|--|---|---|---|--|--|
| τνοσ   | C CHAMBER CONCE<br>AND PREDICTE  | NTRATIONS, EMISSI<br>D AIR CONCENTRAT   |   |   |  |  |
| Elapsed Exposure<br>Hour*  | Chamber<br>Concentration<br>µg/m³  | Emission Fa<br>µg/m²•hi   | ictor C   | Predicted Air<br>Concentration**<br>μg/m³   |  |  |
| 0 (Background)   | BQL  | BQL   |   |   |  |  |
| 6  | 125  | 298   |   | 159   |  |  |
| 24   | 66.8   | 159   |   | 86  |  |  |
| 48   | 70.0   | 167   |   | 80  |  |  |
| 72   | 60.7   | 145   |   | 74  |  |  |
| 96   | 50.2   | 120   |   | 68  |  |  |
| 168  | 42.1   | 100   |   | 53  |  |  |
|  | 1 <sup>st</sup> Order Exponentia   | I Decay Constant = k⊤   | = 0.003   |   |  |  |
| FORMALD  | EHYDE CHAMBER CO<br>AND PREDICTEI  | ONCENTRATIONS, E<br>D AIR CONCENTRAT  |   | ORS   |  |  |
| Elapsed Exposure   | Chamber<br>Concentration   | Emission Factor   |   | r Concentration**   |  |  |
| Hour*  | µg/m³  | µg/m²∙hr  | µg/m³   | ppm   |  |  |
| 0 (Background)   | BQL  | BQL   |   |   |  |  |
| 6  | BQL  | BQL   | < 3   | < 0.002   |  |  |
| <u> </u>   |  |   |   |   |  |  |
| 24   | BQL  | BQL   | < 3   | < 0.002   |  |  |
|  | BQL<br>BQL   | BQL<br>BQL  | < 3<br>< 3  | < 0.002   |  |  |
| 24   |  |   |   |   |  |  |
| 24<br>48<br>72<br>96   | BQL<br>BQL<br>BQL  | BQL<br>BQL<br>BQL   | < 3<br>< 3<br>< 3   | < 0.002   |  |  |
| 24<br>48<br>72<br>96<br>168  | BQL<br>BQL<br>BQL<br>BQL   | BQL<br>BQL<br>BQL<br>BQL  | < 3<br>< 3<br>< 3<br>< 3<br>< 3   | < 0.002<br>< 0.002<br>< 0.002<br>< 0.002  |  |  |
| 24<br>48<br>72<br>96<br>168  | BQL<br>BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTED   | BQL<br>BQL<br>BQL<br>BQL  | < 3<br>< 3<br>< 3<br>< 3<br>NS, EMISSION F  | < 0.002<br>< 0.002<br>< 0.002<br>< 0.002  |  |  |
| 24<br>48<br>72<br>96<br>168<br>TARGET LIST A   | BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTED<br>Chamber   | BQL<br>BQL<br>BQL<br>BQL<br>ER CONCENTRATION<br>D AIR CONCENTRAT  | < 3<br>< 3<br>< 3<br>< 3<br>< 3<br>NS, EMISSION F<br>IONS   | < 0.002<br>< 0.002<br>< 0.002<br>< 0.002<br>ACTORS  |  |  |
| 24<br>48<br>72<br>96<br>168  | BQL<br>BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTEI<br>Chamber<br>Concentration<br>μg/m <sup>3</sup>                                | BQL<br>BQL<br>BQL<br>ER CONCENTRATION<br>D AIR CONCENTRAT<br>Emission Factor<br>µg/m²•hr  | < 3<br>< 3<br>< 3<br>< 3<br>< 3<br>NS, EMISSION F<br>IONS   | < 0.002<br>< 0.002<br>< 0.002<br>< 0.002<br>ACTORS  |  |  |
| 24<br>48<br>72<br>96<br>168<br>TARGET LIST A<br>Elapsed Exposure   | BQL<br>BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTED<br>Chamber<br>Concentration<br>µg/m <sup>3</sup><br>BQL                         | BQL<br>BQL<br>BQL<br>ER CONCENTRATION<br>D AIR CONCENTRAT<br>Emission Factor<br>µg/m <sup>2</sup> •hr<br>BQL                        | <ul> <li>&lt; 3</li> <li>&lt; 3</li> <li>&lt; 3</li> <li>&lt; 3</li> <li>&lt; 3</li> <li>NS, EMISSION F</li> <li>IONS</li> <li>Predicted Ai</li> <li>μg/m³</li> <li></li> </ul> | < 0.002<br>< 0.002<br>< 0.002<br>< 0.002<br>FACTORS   |  |  |
| 24<br>48<br>72<br>96<br>168<br>TARGET LIST A<br>Elapsed Exposure<br>Hour*                                    | BQL<br>BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTEI<br>Chamber<br>Concentration<br>μg/m <sup>3</sup>                                | BQL<br>BQL<br>BQL<br>ER CONCENTRATION<br>D AIR CONCENTRAT<br>Emission Factor<br>µg/m²•hr  | <ul> <li>&lt; 3</li> <li>&lt; 3</li> <li>&lt; 3</li> <li>&lt; 3</li> <li>&lt; 3</li> <li>NS, EMISSION F</li> <li>IONS</li> <li>Predicted Ai</li> <li>μg/m³</li> </ul>           | <ul> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>FACTORS</li> <li>r Concentration**</li> <li>ppm</li> </ul>   |  |  |
| 24<br>48<br>72<br>96<br>168<br>TARGET LIST A<br>Elapsed Exposure<br>Hour*<br>0 (Background)                  | BQL<br>BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTED<br>Chamber<br>Concentration<br>µg/m <sup>3</sup><br>BQL<br>96.6<br>31.9         | BQL<br>BQL<br>BQL<br>ER CONCENTRATION<br>D AIR CONCENTRAT<br>Emission Factor<br>µg/m <sup>2</sup> •hr<br>BQL<br>230<br>76.0         | < 3<br>< 3<br>< 3<br>< 3<br>NS, EMISSION F<br>IONS<br>Predicted Ai<br>μg/m <sup>3</sup><br><br>123<br>42  | <ul> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li><b>FACTORS</b></li> <li><b>r Concentration</b>**</li> <li><b>ppm</b></li> <li></li> <li>0.067</li> <li>0.023</li> </ul>                |  |  |
| 24<br>48<br>72<br>96<br>168<br>TARGET LIST A<br>Elapsed Exposure<br>Hour*<br>0 (Background)<br>6<br>24<br>48 | BQL<br>BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTEI<br>Chamber<br>Concentration<br>µg/m <sup>3</sup><br>BQL<br>96.6<br>31.9<br>19.2 | BQL<br>BQL<br>BQL<br>ER CONCENTRATION<br>D AIR CONCENTRAT<br>Emission Factor<br>µg/m <sup>2</sup> •hr<br>BQL<br>230<br>76.0<br>45.8 | < 3<br>< 3<br>< 3<br>< 3<br>NS, EMISSION F<br>IONS<br>Predicted Ai<br>μg/m <sup>3</sup><br><br>123<br>42<br>25  | <ul> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li><b>FACTORS</b></li> <li><b>r Concentration</b>**</li> <li><b>ppm</b></li> <li></li> <li>0.067</li> <li>0.023</li> <li>0.014</li> </ul> |  |  |
| 24<br>48<br>72<br>96<br>168<br>TARGET LIST A<br>Elapsed Exposure<br>Hour*<br>0 (Background)<br>6<br>24       | BQL<br>BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTED<br>Chamber<br>Concentration<br>µg/m <sup>3</sup><br>BQL<br>96.6<br>31.9         | BQL<br>BQL<br>BQL<br>ER CONCENTRATION<br>D AIR CONCENTRAT<br>Emission Factor<br>µg/m <sup>2</sup> •hr<br>BQL<br>230<br>76.0         | < 3<br>< 3<br>< 3<br>< 3<br>NS, EMISSION F<br>IONS<br>Predicted Ai<br>μg/m <sup>3</sup><br><br>123<br>42  | <ul> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li><b>FACTORS</b></li> <li><b>r Concentration</b>**</li> <li><b>ppm</b></li> <li></li> <li>0.067</li> <li>0.023</li> </ul>                |  |  |
| 24<br>48<br>72<br>96<br>168<br>TARGET LIST A<br>Elapsed Exposure<br>Hour*<br>0 (Background)<br>6<br>24<br>48 | BQL<br>BQL<br>BQL<br>BQL<br>LDEHYDES CHAMBE<br>AND PREDICTEI<br>Chamber<br>Concentration<br>µg/m <sup>3</sup><br>BQL<br>96.6<br>31.9<br>19.2 | BQL<br>BQL<br>BQL<br>ER CONCENTRATION<br>D AIR CONCENTRAT<br>Emission Factor<br>µg/m <sup>2</sup> •hr<br>BQL<br>230<br>76.0<br>45.8 | < 3<br>< 3<br>< 3<br>< 3<br>NS, EMISSION F<br>IONS<br>Predicted Ai<br>μg/m <sup>3</sup><br><br>123<br>42<br>25  | <ul> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li>&lt; 0.002</li> <li><b>FACTORS</b></li> <li><b>r Concentration**</b></li> <li><b>ppm</b></li> <li></li> <li>0.067</li> <li>0.023</li> <li>0.014</li> </ul>                     |  |  |

\*Exposure hours are nominal (± 1 hour).

BQL = Below quantifiable level of 0.04 µg based on a standard 18 L air collection volume for VOCs and 0.1 µg based on a standard 45 L air collection volume for aldehydes.

\*\*Predicted Air Concentrations are based on GREENGUARD modeling predicted concentration parameters. For more information click here.

Released by ULEGuangzhou LaboratoryDate Issued:June 27, 2019Product ID#:1000703768-2307790Test Report #:1000703768-2307790©2019 UL LLCECM2

### TABLE 3

| Product Description T Will 20 Series - Woven Vinyl Flooring 205            |   |                    |      |         |          |          |      |      |  |  |  |
|--|---|--------------------|------|---------|----------|----------|------|------|--|--|--|
| CHAMBER CONCENTRATIONS OF IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS |   |                    |      |         |          |          |      |      |  |  |  |
| CAS  |   |                    | Ela  | psed Ex | posure H | Hour (µg | /m³) |      |  |  |  |
| Number   | Compound  | 0<br>(BG)          | 6    | 24      | 48       | 72       | 96   | 168  |  |  |  |
| 108-05-4   | Acetate, vinyl (Acetic acic ester) <sup>†</sup> | l ethenyl BQL      | 176  | 63.1    | 50.5     | 31.3     | 22.2 | 9.2  |  |  |  |
| 143-08-8   | 1-Nonanol*                                      | BQL                | 38.3 | 24.1    | 27.4     | 24.0     | 22.1 | 18.6 |  |  |  |
| 110453-78-6  | (S)-(+)-6-Methyl-1-octano                       | I* BQL             | 19.8 | 11.7    | 12.5     | 10.6     | 9.5  | 7.7  |  |  |  |
| 104-76-7   | 1-Hexanol, 2-ethyl <sup>†</sup>                 | BQL                | 13.1 | 7.1     | 7.5      | 6.2      | 5.4  | 4.2  |  |  |  |
| 78-93-3  | 2-Butanone (Methyl ethyl<br>MEK) <sup>†</sup>   | ketone, BQL        | 13.1 | 5.3     | 4.6      | 2.5      | 2.1  |      |  |  |  |
| 1653-40-3  | 1-Heptanol, 6-methyl                            | BQL                | 8.1  | 4.8     | 5.2      | 4.5      | 4.0  | 3.2  |  |  |  |
| 1632-16-2  | Heptane, 3-methylene*                           | BQL                | 5.3  | 2.4     |          |          |      |      |  |  |  |
| 13475-82-6   | Heptane, 2,2,4,6,6-pentar                       | methyl BQL         | 4.9  | 2.5     | 2.2      |          |      |      |  |  |  |
| 141-78-6   | Acetate, ethyl                                  | BQL                | 4.8  |         |          |          |      |      |  |  |  |
| 6939-71-5  | cis-Hexahydrophthalide*                         | BQL                | 4.6  | 3.3     | 4.2      | 4.0      | 4.0  | 4.0  |  |  |  |
| 58175-57-8   | 2-Propyl-1-pentanol*                            | BQL                | 4.0  | 2.3     | 2.4      | 2.0      |      |      |  |  |  |
| 818-81-5   | 1-Octanol, 2-methyl-*                           | BQL                | 3.5  | 2.1     | 2.3      | 2.1      |      |      |  |  |  |
| 71-36-3  | 1-Butanol (N-Butyl alcoh                        | ol)† BQL           | 3.2  |         |          |          |      |      |  |  |  |
| 123-86-4   | Acetate, butyl                                  | BQL                | 2.5  |         |          |          |      |      |  |  |  |
| 1000061-84-1   | 3-Undecene, 5-methyl-*                          | BQL                | 2.4  |         |          |          |      |      |  |  |  |
| 18450-74-3   | 1-Heptanol, 2,4-dimethyl-                       | , (2S,4R)-(-)* BQL | 2.0  |         |          |          |      |      |  |  |  |

# TABLE 4

| Product Description T Will 20 Series - Woven Vinyl Flooring 205      |   |                          |      |         |          |            |          |      |  |  |
|--|---|--------------------------|------|---------|----------|------------|----------|------|--|--|
| EMISSION FACTORS OF IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS |   |                          |      |         |          |            |          |      |  |  |
| CAS<br>Number  |   |                          |      | Elapsed | Exposure | e Hour (µg | ŋ/m²∙hr) |      |  |  |
|  | Compound  |                          | 6    | 24      | 48       | 72         | 96       | 168  |  |  |
| 108-05-4   | Acetate, vinyl (Acetic acid ethenyl ester) <sup>†</sup> |                          | 420  | 150     | 120      | 74.6       | 52.9     | 21.8 |  |  |
| 143-08-8   | 1-Nonanol*  |                          | 91.2 | 57.4    | 65.3     | 57.3       | 52.6     | 44.4 |  |  |
| 110453-78-6  | (S)-(+)-6-Methyl-1-octanol*                             |                          | 47.3 | 27.8    | 29.7     | 25.4       | 22.7     | 18.3 |  |  |
| 104-76-7   | 1-Hexan   | ol, 2-ethyl <sup>†</sup> | 31.3 | 17.0    | 17.8     | 14.8       | 12.9     | 10.0 |  |  |
| 78-93-3  | 2-Butanone (Methyl ethyl ketone,<br>MEK) <sup>†</sup>   |                          | 31.3 | 12.7    | 10.9     | 6.1        | 5.0      |      |  |  |
| 1653-40-3  | 1-Heptar  | ol, 6-methyl             | 19.2 | 11.4    | 12.5     | 10.7       | 9.5      | 7.7  |  |  |
| 1632-16-2  | Heptane,  | 3-methylene*             | 12.6 | 5.8     |          |            |          |      |  |  |
| 13475-82-6   | Heptane,  | 2,2,4,6,6-pentamethyl    | 11.6 | 6.0     | 5.3      |            |          |      |  |  |
| 141-78-6   | Acetate,  | ethyl                    | 11.4 |         |          |            |          |      |  |  |
| 6939-71-5  | cis-Hexa  | hydrophthalide*          | 11.0 | 7.9     | 10.1     | 9.5        | 9.5      | 9.5  |  |  |

Page 5 of 11

This report shall not be reproduced, except in full, without permission from UL. Results contained within this report only apply to the actual product tested under the testing conditions documented in this report.

| Product De   | scription | T Will 20 Series - Woven Vinyl   | Flooring | 205     |          |            |          |     |
|--------------|-----------|----------------------------------|----------|---------|----------|------------|----------|-----|
| EM           | ISSION FA | CTORS OF IDENTIFIED INDIV        | IDUAL V  | OLATILE | ORGANIC  | СОМРО      | UNDS     |     |
| CAS          |           |                                  |          | Elapsed | Exposure | e Hour (µg | g/m²∙hr) |     |
| Number       |           | Compound                         | 6        | 24      | 48       | 72         | 96       | 168 |
| 58175-57-8   | 2-Propyl- | 1-pentanol*                      | 9.5      | 5.5     | 5.8      | 4.8        |          |     |
| 818-81-5     | 1-Octanc  | l, 2-methyl-*                    | 8.2      | 5.0     | 5.5      | 5.0        |          |     |
| 71-36-3      | 1-Butano  | I (N-Butyl alcohol) <sup>†</sup> | 7.7      |         |          |            |          |     |
| 123-86-4     | Acetate,  | butyl                            | 5.9      |         |          |            |          |     |
| 1000061-84-1 | 3-Undece  | ene, 5-methyl-*                  | 5.6      |         |          |            |          |     |
| 18450-74-3   | 1-Heptar  | ol, 2,4-dimethyl-, (2S,4R)-(-)*  | 4.9      |         |          |            |          |     |

\*Indicates NIST/EPA/NIH best library match only based on retention time and mass spectral characteristics. <sup>†</sup>Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

Quantifiable level is 0.04 µg based on a standard 18 L air collection volume.

| Produc  | Product Description T Will 20 Series - Woven Vinyl Flooring 205 |                      |           |         |         |         |      |     |     |  |  |
|---|---|----------------------|-----------|---------|---------|---------|------|-----|-----|--|--|
| CHAMBER CONCENTRATIONS OF TARGET LIST ALDEHYDES |   |                      |           |         |         |         |      |     |     |  |  |
| CAS   |   |                      | Elap      | sed Exp | osure H | our (µg | /m³) |     |     |  |  |
| Number  | Compound  |                      | 0<br>(BG) | 6       | 24      | 48      | 72   | 96  | 168 |  |  |
| 4170-30-3                                       | 2-Butenal   |                      | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 75-07-0   | Acetaldehyde  |                      | BQL       | 94.1    | 31.9    | 19.2    | 11.3 | 7.2 | 2.5 |  |  |
| 100-52-7  | Benzaldehyde  |                      | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 5779-94-2                                       | Benzaldehyde  | , 2,5-dimethyl       | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 529-20-4  | Benzaldehyde  | , 2-methyl           | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 620-23-5<br>/104-87-0                           | Benzaldehyde  | , 3- and/or 4-methyl | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 123-72-8  | Butanal   |                      | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 590-86-3  | Butanal, 3-met  | hyl                  | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 50-00-0   | Formaldehyde  |                      | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 66-25-1   | Hexanal   |                      | BQL       | 2.5     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 110-62-3  | Pentanal  |                      | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |
| 123-38-6  | Propanal  |                      | BQL       | BQL     | BQL     | BQL     | BQL  | BQL | BQL |  |  |

## TABLE 6

| Product D             | escription                                | T Will 20 Series - Woven V | inyl Floorir | ng 205                           |      |      |      |     |  |  |
|-----------------------|---|----------------------------|--------------|----------------------------------|------|------|------|-----|--|--|
|                       | EMISSION FACTORS OF TARGET LIST ALDEHYDES |                            |              |                                  |      |      |      |     |  |  |
| CAS                   |   | Compound                   |              | Elapsed Exposure Hour (µg/m²•hr) |      |      |      |     |  |  |
| Number                |   | Compound                   | 6            | 24                               | 48   | 72   | 96   | 168 |  |  |
| 4170-30-3             | 2-Butenal                                 |                            | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 75-07-0               | Acetaldeh                                 | yde                        | 224          | 76.0                             | 45.8 | 26.9 | 17.2 | 6.0 |  |  |
| 100-52-7              | Benzaldeh                                 | iyde                       | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 5779-94-2             | Benzaldeh                                 | yde, 2,5-dimethyl          | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 529-20-4              | Benzaldeh                                 | yde, 2-methyl              | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 620-23-5<br>/104-87-0 | Benzalder                                 | yde, 3- and/or 4-methyl    | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 123-72-8              | Butanal                                   |                            | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 590-86-3              | Butanal, 3                                | -methyl                    | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 50-00-0               | Formaldeh                                 | nyde                       | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 66-25-1               | Hexanal                                   |                            | 6.0          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 110-62-3              | Pentanal                                  |                            | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |
| 123-38-6              | Propanal                                  |                            | BQL          | BQL                              | BQL  | BQL  | BQL  | BQL |  |  |

BQL = Below quantifiable level of 0.1  $\mu$ g based on a standard 45 L air collection volume.

## SUPPLEMENTAL EMISSIONS INFORMATION

The table below represents this product's identified chemical emissions found on certain regulatory lists. This list only provides a statement regarding possible health effects associated with this compound and not the relative risks of exposure. Proper interpretation of the risks associated with exposure to a given regulated compound requires a more detailed evaluation of toxicological activity. Certain purchasing programs may require this information be submitted.

| Product Description T Will 20 Series - Woven Vinyl Flooring 205  |   |   |   |  |   |  |   |  |
|--|---|---|---|--|---|--|---|--|
|  |   |   | ✓() = FOUND IN LISTING (CLASS)  |  |   |  |   |  |
| CAS<br>Number  |   | Compound  | CAL<br>PROP.<br>65  | NTP  | IARC  | CAL AIR<br>TOXICS  | CREL  | TLV  |
| 71-36-3  | 1-Butanol (   | N-Butyl alcohol) <sup>†</sup>   |   |  |   | √(IVB)   |   | $\checkmark$   |
| 78-93-3  | 2-Butanone<br>MEK) <sup>†</sup>   | (Methyl ethyl ketone,   |   |  |   | √(IIA)   |   | $\checkmark$   |
| 75-07-0  | Acetaldehyd   | le  | √(1)  | √(2B)  | √(2B)   | √(IIA)   | $\checkmark$  | $\checkmark$   |
| 123-86-4   | Acetate, but  | yl  |   |  |   |  |   | $\checkmark$   |
| 141-78-6   | Acetate, eth  | yl  |   |  |   |  |   | $\checkmark$   |
| 108-05-4   | Acetate, vin<br>ester) <sup>†</sup>   | yl (Acetic acid ethenyl   |   |  | √(2B)   | √(IIA)   | $\checkmark$  | $\checkmark$   |
| <sup>†</sup> Denotes quant   | fied using multi  | point authentic standard curve  | 9   |  |   |  |   |  |
| CAL Prop. 65: California Health and Welfare Agency, Proposition 65 Chemicals<br>1 = known to cause cancer 2 = known to cause reproductive toxicity<br>NTP: National Toxicology Program<br>2A = known to be carcinogenic to humans 2B = reasonably anticipated to be carcinogenic to humans |   |   |   |  |   |  |   |  |
| 1 = 0<br>2A =  | carcinogenic to<br>= probably carci   | Research of Cancer<br>humans<br>nogenic to humans<br>nogenic to humans  |   |  |   | arcinogenicity<br>jenic to humar   |   |  |
| by th<br>IIA = Sub-<br>deve<br>IIB= Sub-<br>unde<br>III = Sub-<br>valu<br>IVA = Sub-<br>Cate<br>IVBA =Sub-<br>Cate<br>V = Sub-<br>Califi<br>VI = Sub-  | stances identifie<br>ne Scientific Re<br>stances identifie<br>elopment by the<br>stances NOT ic<br>er development<br>stances known<br>es.<br>stance identifie<br>gory III.<br>sostance NOT id<br>y into Category<br>stance identifie<br>fornia based on<br>stances identifi | ed as Toxic Air Contaminants,<br>Office of Environmental Heal<br>lentified as Toxic Air Contamin<br>by the Office of Environmenta<br>to be emitted in California and<br>d as Toxic Air Contaminants, ku<br>entified as Toxic Air Contamin | known to be<br>th Hazard Ass<br>nants, known<br>al Health Haza<br>d are NOMINA<br>nown to be em<br>nants, known t<br>and NOT KNo<br>Air Toxic "Hot<br>ts, NOT KNO | emitted in C<br>essment for<br>to be emitte<br>rd Assessm<br>TED for de<br>itted in Calif<br>o be emitter<br>OWN TO B<br>Spots" Prog | California, w<br>r review by t<br>ad in Califor<br>ent for revie<br>velopment<br>fornia and a<br>d in Califorr<br>E EMITTEL<br>gram and the | ith one or mor<br>the Scientific F<br>nia, with one of<br>ew by the Scie<br>of health value<br>re TO BE EVA<br>nia and are TC<br>D from stationa<br>e California To: | e health value<br>Review Pane<br>or more hea<br>ntific Review<br>es or addition<br>LUATED for<br>D BE EVALU<br>ary source fa<br>xic Release | ues under<br>I.<br>Ith values<br>v Panel.<br>nal health<br>entry into<br>VATED for<br>acilities in<br>Inventory. |

CREL: California Office of Environmental Health's Hazard Assessment (OEHHA), Chronic Reference Exposure Levels ✓ = Found in Listing

ACGIH TLV American Conference of Governmental Industrial Hygienists Threshold Limit Values for Chemical Substances and Physical Agents.

 $\checkmark$  = Found in Listing.

Released by ULEGuangzhou LaboratoryDate Issued:June 27, 2019Product ID#:1000703768-2307790Test Report #:1000703768-2307790©2019 UL LLCBCM2

| CHAIN | OF | CUST | ODY |
|-------|----|------|-----|
|-------|----|------|-----|

| 23228127330   | 1   |   |   | 90  | 429   |   |
|---|---|---|---|---|---|---|
| INT   | ERNAL Use Onl   | y   | 2307  | 700   |   |   |
|   | -478 <del>-X/2313</del>   | 7   | 2301  | 190   |   |   |
| Project #   | 1000703768  | 2   | Jescription   |   | 2301730   |   |
| Product #   |   |   | / 4111 20 00rser -  | - Wrwan Vorel Flo   | 208   |   |
|   | 220779  | 0   | C. etamony KI   | INCLIAN JAVT  | EX TEXTILE I  | NPUSTR  |
| Order #   | 12676683  |   | Received Dat  | Aur<br>Cre  | den No.:  | .: 1000703788<br>12976586   |
| Task Line 2.1   | UL BU   | INC VS  | - 2019-204-05 11  | :40:21 AN CT6   | able Project No.  |   |
|   |   | INC NO  | -   |   |   | 1 0† 1  |
| ol  |   |   |   |   |   |   |
| Rush Request -  | Subject to upchar   | <b>ge</b> . Customer mus  | t contirm with UL   | prior to submit   | tling product.  |   |
|   |   | GREENGUA  | RD Test Informa   | tion  |   |   |
| Test Type   | Z Certification Fe  | st • Annual/Initial *   | Year <u>4</u>   | 100   | ut-ol-Scope Test  |   |
| iser i Ahe  | C Quarterly Test  | Year Quarter  |   | ΞP'   | ofile Study Test  |   |
| Service Line  | X GREENGUARI  |   | JARD GOLD   | E Other   |   |   |
|   | Vinyl Flooring - 0  |   |   |   |   |   |
| Product Category  | Flooring  |   | Subcategor  | Resilient   |   |   |
| Application   | E Fluor/Ceiling   | C Pane  | 🗆 Wail  | L <sup>1</sup> Work Sur   | face 🗇 Other:   |   |
|   |   |   |   |   |   | the second se |
| Wet Products Only   | Coverage Rate   | e   | Densi:  | -   |   | Gravity   |
| Wet Products Only   | Coverage Rate   |   | Densit  | У   | Socafe  | Gravity   |
| Product Description   | Sisal 20 series -   | Product and C   | Densi:<br>Company Inform  | У   |   | Gravity   |
|   | -Sisal 20 series - '  | Product and C<br>Woven Vinyl Floor  | Densi:<br>Company Inform<br>ing 205   | y<br>ation  | Socafe  | Gravity   |
| Product Description   | Sisal 20 series -<br>T WW<br>KUNSHAN WAYT   | Product and C<br>Woven Vinyl Floor<br>IEX TEXTILS   | Danai:<br>Company Inform<br>ing 205<br>Date M   | y<br>ation<br>anufactured   | Socafe<br>5/28/2018   | Gravity   |
| Product Description<br>Manufacture ID:  | Sisal 20 series -   | Product and C<br>Woven Vinyl Floor<br>IEX TEXTILS   | Danai:<br>Company Inform<br>ing 205<br>Date M   | y<br>ation<br>anufactured<br>ontact Name I  | Socafe<br>5/28/2018   | Gravity   |
| Product Description<br>Manufacture ID#<br>Company Name  | Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO ,L   | Product and C<br>Woven Vinyl Floor<br>IEX TEXTILS   | Dansi:<br>Company Inform<br>ing 205<br>Date M   | y<br>ation<br>anufactured<br>ontact Name I<br>Job Title   | Socafe<br>5/28/2018   | Gravity   |
| Product Description<br>Manufacture ID:  | Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO ,L   | Product and C<br>Woven Vinyl Floor<br>IEX TEXTILS   | Dansi;<br>Company Inform<br>ing 205<br>Date M<br>Co   | ation<br>anufactured<br>ontact Name I<br>Job Title<br>Intact Phone  | Socafa<br>5/28/2046<br>Eric Hsieh   |   |
| Product Description<br>Manufacture ID#<br>Company Name  | Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO ,L   | Product and (<br>Woven Vinyl Floor<br>IEX TEXTILE<br>TD   | Dansi;<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co   | ation<br>anufactured<br>ontact Name I<br>Job Title<br>Intact Phone  | Socafa<br>5/28/2046<br>Eric Hsieh   |   |
| Product Description<br>Manufacture ID:<br>Company Name<br>Address   | -Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO ,L  | Product and (<br>Woven Vinyl Floor<br>IEX TEXTILE<br>TD   | Dansi;<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co   | y<br>ation<br>anufactured o<br>ontact Name I<br>Job Title<br>intact Phone<br>ontact Email o   | Socafa<br>Sizei2046<br>Eric Hsieh<br>eric heleh @   |   |
| Product Description<br>Manufacture IDX<br>Company Name<br>Address<br>Collector Name   | -Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO ,L  | Product and (<br>Woven Vinyl Floor<br>IEX TEXTILE<br>TD   | Danai:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Information<br>Da  | y<br>ation<br>ontact Name E<br>Job Title<br>intact Phone<br>ontact Emsil e<br>tte Collected S   | Socafa<br>Sizei2046<br>Eric Hsieh<br>eric heleh @   |   |
| Product Description<br>Manufacture IDX<br>Company Name<br>Address<br>Collector Name<br>Collector Phone  | -Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO,L   | Product and (<br>Woven Vinyl Floor<br>IEX TEXTILE<br>TD   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | ation<br>anufactured<br>ontact Name<br>Job Title<br>Intact Phone<br>ontact Email e<br>Ita Collected<br>ine Collected  | Socafa<br>Sizei2046<br>Eric Hsieh<br>eric heleh @   |   |
| Product Description<br>Manufacture IDX<br>Company Name<br>Address<br>Collector Name   | -Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO,L   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILS<br>TD<br>Collecti   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | y<br>ation<br>ontact Name E<br>Job Title<br>intact Phone<br>ontact Emsil e<br>tte Collected S   | Socafa<br>Sizei2046<br>Eric Hsieh<br>eric heleh @   |   |
| Product Description<br>Manufacture IDX<br>Company Name<br>Address<br>Collector Name<br>Collector Phone  | Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO,L  | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILS<br>TD<br>Collecti   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | ation<br>anufactured<br>ontact Name<br>Job Title<br>Intact Phone<br>ontact Email e<br>Ita Collected<br>ine Collected  | Socafa<br>Sizei2046<br>Eric Hsieh<br>eric heleh @   |   |
| Product Description<br>Manufacture IDA<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature   | -Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO,L   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILS<br>TD<br>Collecti   | Dansi:<br>Company Inform<br>ing 20s<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | ation<br>anufactured<br>ontact Name<br>Job Title<br>Intact Phone<br>ontact Email e<br>Ita Collected<br>ine Collected  | Socafc<br>5/28/2016<br>Eric Hsieh<br>9 ric heleh @1<br>9/31/2019                          |   |
| Product Description<br>Manufacture IDX<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Carriet  | -Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO,L   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILS<br>TD<br>Collecti   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Information<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co  | y<br>ation<br>anufactured<br>ontact Name<br>Job Title<br>intact Phone<br>ontact Email<br>e<br>ta Collected<br>ion Location  | Socafc<br>5/28/2016<br>Eric Hsieh<br>9 ric heleh @1<br>9/31/2019                          |   |
| Product Description<br>Manufacture IDA<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Carrier<br>Shipper Name  | -Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO,L   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILS<br>TD<br>Collecti   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Information<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co  | y<br>ation<br>anufactured<br>ontact Name<br>Job Title<br>intact Phone<br>ontact Phone<br>ontact Emsil<br>e<br>the Collected<br>ion Location<br>atle Shipped (   | Socafc<br>5/28/2016<br>Eric Hsieh<br>9 ric heleh @1<br>9/31/2019                          | fabric.com.l  |
| Product Description<br>Manufacture IDX<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Carrier<br>Shipper Name<br>Shipper Phone   | -Sisal 20 series -<br>T WW<br>KUNSHAN WAYT<br>INDUSTRY CO,L   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILE<br>.TD<br>Collecti<br>Shippin   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Information<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Co<br>Isot<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co  | y<br>ation<br>anufactured<br>ontact Name<br>Job Title<br>intact Phone<br>ontact Email<br>on Collected<br>ion Location<br>ate Shipped<br>ime Shipped   | Socafc<br>5/28/2016<br>Eric Hsieh<br>9 ric heleh @1<br>9/31/2019                          |   |
| Product Description<br>Manufacture IDX<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Carrier<br>Shipper Name<br>Shipper Phone<br>Shipper Signature  | Sisal 20 series   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILE<br>.TD<br>Collecti<br>Shippin<br>Sample   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | y<br>ation<br>anufactured<br>ontact Name<br>Job Title<br>Intact Phone<br>ontact Phone<br>ontact Email<br>on a Collected<br>ion Location<br>ale Shipped<br>Air Bill #<br>ational Italia S.c.   | Socafo<br>5/28/2016<br>Eric Hsieh<br>9/31/2019<br>5/3/2019                                |   |
| Product Description<br>Manufacture ID2<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Collector Signature<br>Shipper Name<br>Shipper Phone<br>Shipper Signature  | Sisal 20 series   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILE<br>TD<br>Collecti<br>Shippin<br>at Services (Guangcha<br>at Services (Guangcha<br>at Services (Guangcha   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | y<br>ation<br>anufactured<br>ontact Name<br>Job Title<br>Intact Phone<br>ontact Phone<br>ontact Email<br>on a Collected<br>ion Location<br>ale Shipped<br>Air Bill #<br>ational Italia S.c.   | Socafo<br>5/28/2016<br>Eric Hsieh<br>9/31/2019<br>5/3/2019                                |   |
| Product Description<br>Manufacture ID/<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Collector Signature<br>Shipper Name<br>Shipper Signature<br>Shipper Signature  | Sisal 20 series   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILS<br>.TD<br>Collecti<br>Shippin<br>Sample   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | y<br>ation<br>anufactured<br>ontact Name<br>Job Title<br>Intact Phone<br>ontact Phone<br>ontact Email<br>on a Collected<br>ion Location<br>ale Shipped<br>Air Bill #<br>ational Italia S.c.   | Socafo<br>5/28/2016<br>Eric Hsieh<br>9/31/2019<br>5/3/2019                                |   |
| Product Description<br>Manufacture ID2<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Collector Signature<br>Shipper Name<br>Shipper Phone<br>Shipper Signature  | Sisal 20 series - T WW KUNSHAN WAYT INDUSTRY CO ,L COUL Verificatio Could a , 35 Net answise Dir Net Susting A , 35 Net answise Dir Net Susting A , 35 Net answise Dir Net Could a A , 35 Net answise Dir Net Could a A , 35 Net answise Dir Net Could a A , 35 Net answise Dir Net Could a A , 35 Net answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Answise  | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILE<br>TD<br>Collecti<br>Skilppin<br>Sample<br>Il Services Gut Inducts<br>25 Solit Hampi Avera,<br>angeleo Sildet, Cam.<br>Post Testing   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | y<br>ation<br>anufactured a<br>ontact Name B<br>Job Title<br>intact Phone<br>ontact Phone<br>ontact Phone<br>inte Collected a<br>ne Collected<br>ion Location<br>atle Shipped<br>Air Bill #<br>atlonal Italia S.r.<br>ortcov<br>ortcov  | Socafo<br>5/28/2016<br>Eric Hsieh<br>9/31/2019<br>5/3/2019                                |   |
| Product Description<br>Manufacture ID2<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Collector Signature<br>Shipper Name<br>Shipper Phone<br>Shipper Signature  | Sisal 20 series - T WW KUNSHAN WAYT INDUSTRY CO ,L COUL Verificatio Could a , 35 Net answise Dir Net Susting A , 35 Net answise Dir Net Susting A , 35 Net answise Dir Net Could a A , 35 Net answise Dir Net Could a A , 35 Net answise Dir Net Could a A , 35 Net answise Dir Net Could a A , 35 Net answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Could a A , 35 Net Answise Dir Net Answise  | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILE<br>TD<br>Collecti<br>Shilppin<br>Shilppin<br>Sample<br>Sach Asso Assard Technolog<br>S Soch Hamori Avera,<br>Angeleo Stitist, Came  | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | y<br>ation<br>anufactured a<br>ontact Name B<br>Job Title<br>intact Phone<br>ontact Phone<br>ontact Phone<br>inte Collected a<br>ne Collected<br>ion Location<br>atle Shipped<br>Air Bill #<br>atlonal Italia S.r.<br>ortcov<br>ortcov  | Socafo<br>5/28/2016<br>Eric Hsieh<br>9/31/2019<br>5/3/2019                                |   |
| Product Description<br>Manufacture IDX<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Phone<br>Collector Signature<br>Carrier<br>Shipper Name<br>Shipper Phone<br>Shipper Signature<br>Carrier<br>Shipper Signature<br>Carrier<br>Shipper Signature<br>Carrier<br>Shipper Signature<br>Carrier<br>Shipper Signature   | Sisal 20 series     T WW     KUNSHAN WAY     INDUSTRY CO,L     Solution     C UL Verificatio     Suding A, 35 Yet     Inswitch Dir Yet     Solution Dir Yet   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILE<br>TD<br>Collecti<br>Shilppin<br>Skilppin<br>Sample<br>It Services (Guangcha<br>bit Scole and Technologies<br>Social House (Guangcha<br>bit Sech House) Anno<br>Post Testing<br>osed of 30 days after r                       | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | y<br>ation<br>ation<br>ation<br>ation<br>ation<br>ontact Name<br>Job Title<br>Intact Phone<br>ontact Phone<br>ontact Phone<br>ontact Phone<br>attact Phone<br>att | Socafo<br>5/28/2016<br>Eric Hsieh<br>9/31/2019<br>5/3/2019                                |   |
| Product Description<br>Manufacture ID2<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Collector Signature<br>Shipper Phone<br>Shipper Phone<br>Shipper Phone<br>Shipper Signature<br>UL Environment (Marict<br>21 Marcas (24 Marit<br>Marine Ge 00007, vgA<br>Return Shipping Co.  | Sisal 20 series<br>T WNW<br>KUNSHAN WAYT<br>INDUSTRY CO,L<br>Sisseries<br>20140月2,55 Ver<br>20140月2,55 Ver<br>2014010,55 Ver<br>2014000,5 | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILE<br>TD<br>Collecti<br>Skilppin<br>Sample<br>Il Services Gut Inducts<br>25 Solit Hampi Avera,<br>angeleo Sildet, Cam.<br>Post Testing   | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Da<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Information<br>Collect<br>Info  | y<br>ation<br>anufactured i<br>ontact Name i<br>Job Title<br>intact Phone<br>ontact Phone<br>ontact Phone<br>ontact Phone<br>inte Collected<br>in Collected<br>ion Location<br>Air Bill #<br>Ational Italia S.r.I<br>orccory<br>blate (Corps, hele<br>fon<br>ormation below is<br>hipping Aust #<br>ormation  | Socafo<br>5/28/2016<br>Eric Hsieh<br>9/31/2019<br>5/3/2019                                |   |
| Product Description<br>Manufacture ID2<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Collector Signature<br>Shipper Name<br>Shipper Signature<br>Shipper Signatu    | Sisal 20 series<br>T WNW<br>KUNSHAN WAYT<br>INDUSTRY CO,L<br>Sudag A, 53 Ver<br>answind St. Ve.<br>Yensha Day cl G.<br>ISample Will be dieu<br>实验实处理  | Product and 0<br>Woven Vinyl Floor<br>TEX TEXTILE<br>TD<br>Collecti<br>Shilppin<br>Sample<br>Il Services (Guangcha<br>abla 355 octand Technolog<br>Soch Handrid Area<br>Soch Handrid Area<br>Soch Handrid Area<br>Post Testing<br>osed of 30 days after re<br>Internal Use Only | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Collect<br>Information<br>Da<br>Tin<br>Collect<br>Information<br>D<br>Submitted to<br>I TUL nigen<br>T<br>Submitted to<br>I TUL nigen<br>T<br>Submitted to<br>I TUL nigen<br>Submitted to<br>I Submitted to<br>Collect<br>I Submitted to<br>I S  | y ation anufactured anufactured ontact Name Job Title Intact Phone ontact Phone ontact Phone intact Phone int  | Socafo<br>5/28/2018<br>Eric Hsieh<br>9 ric heleh @<br>5/31/2019<br>5/31/2019<br>5/31/2019 |   |
| Product Description<br>Manufacture ID2<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Shipper Name<br>Shipper Signature<br>Shipper Signature<br>Shipper Signature<br>Shipper Signature<br>Shipper Signature<br>Shipper Signature<br>Shipper Signature<br>Shipper Signature<br>Shipper Signature<br>Content Mariet<br>Shipper Signature<br>Shipper Signature<br>Sh | Sisal 20 series<br>T WNW<br>KUNSHAN WAYT<br>INDUSTRY CO,L<br>Subject of the series of the   | Product and C<br>Woven Vinyl Floor<br>TEX TEXTILE<br>TD<br>Collecti<br>Shilppin<br>Skilppin<br>Sample<br>It Services (Guangcha<br>bit Scole and Technologies<br>Social House (Guangcha<br>bit Sech House) Anno<br>Post Testing<br>osed of 30 days after r                       | Densi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Information<br>Da<br>Tin<br>Collect<br>To<br>Submitted to<br>J<br>TUL neen<br>T<br>Submitted to<br>J<br>TUL neen<br>T<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect<br>Collect | y ation anufactured anufactured ontact Name Job Title Intact Phone ontact Phone ontact Phone interact Phone int  | Socafo<br>5/28/2016<br>Eric Hsieh<br>9/31/2019<br>5/3/2019                                |   |
| Product Description<br>Manufacture ID2<br>Company Name<br>Address<br>Collector Name<br>Collector Phone<br>Collector Signature<br>Collector Signature<br>Shipper Name<br>Shipper Signature<br>Shipper Signatu    | Sisal 20 series<br>T WNW<br>KUNSHAN WAYT<br>INDUSTRY CO,L<br>Sudag A, Si Ner<br>answalion 21, %: Si Ne  | Product and 0<br>Woven Vinyl Floor<br>TEX TEXTILE<br>TD<br>Collecti<br>Shilppin<br>Sample<br>Il Services (Guangcha<br>abla 355 octand Technolog<br>Soch Handrid Area<br>Soch Handrid Area<br>Soch Handrid Area<br>Post Testing<br>osed of 30 days after re<br>Internal Use Only | Dansi:<br>Company Inform<br>ing 205<br>Date M<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co<br>Co   | y ation anufactured ontact Name Job Title Intact Phone ontact Email ontact Email ontact Email is te Collected inne Collected inne Collected inne Shipped Air Bill # attonel Italie Surj occury otate (Corps, hele fon mation below is hipping Acet # prmation cor Signature Receive Date Receive Time   | Socafo<br>5/28/2018<br>Eric Hsieh<br>9 ric heleh @<br>5/31/2019<br>5/31/2019<br>5/31/2019 |   |

00 EN HOB63 HISBUE 5.0

# **APPENDIX 1**

## **GREENGUARD GOLD RESULTS SUMMARY**

| Product Description                      | T Will 20 Series - Woven Vinyl Flooring 205 |   |                         |     |  |  |  |  |
|--|---|---|-------------------------|-----|--|--|--|--|
| COMPLIANCE WITH GREENGUARD GOLD STANDARD |   |   |                         |     |  |  |  |  |
| GREENGUA                                 | RD Gold                                     | 168 Hour Predicte                                       | Product                 |     |  |  |  |  |
| Acceptable IA                            | Q Criteria                                  | Office  | Compliance<br>for IAQ   |     |  |  |  |  |
| TVOC                                     | ≤ 0.22 mg/m³                                | 0.054 mg/m <sup>3</sup>                                 | 0.047 mg/m <sup>3</sup> | Yes |  |  |  |  |
| Formaldehyde                             | ≤ 0.0073 ppm                                | < 0.002 ppm   | < 0.002 ppm             | Yes |  |  |  |  |
| Total Aldehydes                          | ≤ 0.043 ppm                                 | 0.002 ppm 0.002 ppm Yes                                 |                         |     |  |  |  |  |
| 1-Methyl-2-Pyrrolidinone                 | ≤ 0.16 mg/m³                                | < 0.003 mg/m <sup>3</sup> < 0.002 mg/m <sup>3</sup> Yes |                         |     |  |  |  |  |
| Individual VOCs                          | ≤ 1/100 TLV and<br>≤ ½ chronic REL          | See Below   |                         |     |  |  |  |  |

\*\*Predicted Air Concentrations are based on GREENGUARD Gold modeling predicted concentration parameters.

|               | TOP TEN MOST ABUNDANT IDENTIFIED VOCS, INCLUDING ALDEHYDES |                                      |                                |   |           |  |  |  |
|---------------|--|--------------------------------------|--------------------------------|---|-----------|--|--|--|
| CAS<br>Number | Compound   | 168 Hour<br>Chamber<br>Concentration | 168 Hour<br>Emission<br>Factor | Predicted Air<br>Concentration**<br>(µg/m³) |           |  |  |  |
|               |  | (µg/m³)                              | (µg/m²∙hr)                     | Office                                      | Classroom |  |  |  |
| 143-08-8      | 1-Nonanol*   | 18.6                                 | 44.4                           | 24  | 21        |  |  |  |
| 108-05-4      | Acetate, vinyl (Acetic acid ethenyl ester) <sup>†</sup>    | 9.2                                  | 21.8                           | 12  | 10        |  |  |  |
| 110453-78-6   | (S)-(+)-6-Methyl-1-octanol*                                | 7.7                                  | 18.3                           | 10  | 9         |  |  |  |
| 104-76-7      | 1-Hexanol, 2-ethyl <sup>†</sup>                            | 4.2                                  | 10.0                           | 5   | 5         |  |  |  |
| 6939-71-5     | cis-Hexahydrophthalide*                                    | 4.0                                  | 9.5                            | 5   | 4         |  |  |  |
| 1653-40-3     | 1-Heptanol, 6-methyl                                       | 3.2                                  | 7.7                            | 4   | 4         |  |  |  |
| 75-07-0       | Acetaldehyde <sup>‡</sup>                                  | 2.5                                  | 6.0                            | 3   | 3         |  |  |  |

| CHEMICALS OF CONCERN WITH EXISTING TLV, CREL,<br>CA PROP 65 OR CAL TOXIC AIR CONTAMINANT VALUES |   |                          |                            |                            |             |                           |        |              |              |
|---|---|--------------------------|----------------------------|----------------------------|-------------|---------------------------|--------|--------------|--------------|
|   |   | 168 Hour                 | ur 168 Hour 168 Hour Predi |                            | r Predicted | ✓ INDICATES PRESENCE ON L |        | N LIST       |              |
| CAS<br>Number   | Compound  | Chamber<br>Concentration | Emission<br>Factor         | Concentration**<br>(µg/m³) |             | CA<br>PROP 65             |        | CA<br>CREL   |              |
|   |   | (µg/m³)                  | (µg/m²∙hr)                 | Office                     | Classroom   | m Ref 05 TAC CREE         |        |              |              |
| 75-07-0   | Acetaldehyde <sup>‡</sup>                               | 2.5                      | 6.0                        | 3                          | 3           | √(1)                      | √(IIA) | $\checkmark$ | $\checkmark$ |
| 108-05-4  | Acetate, vinyl (Acetic acid ethenyl ester) <sup>†</sup> | 9.2                      | 21.8                       | 12                         | 10          |                           | √(IIA) | $\checkmark$ | $\checkmark$ |

| COMPARISON OF COMPOUNDS FOUND WITH EXISTING TLV AND/OR CHRONIC REL |  |                          |                         |        |           |                       |  |  |
|--|--|--------------------------|-------------------------|--------|-----------|-----------------------|--|--|
| CAS<br>Number  | Compound                                   | 1/100<br>TLVª<br>(μg/m³) | ½ CA<br>Chronic<br>REL⁵ | •••••• |           | Product<br>Compliance |  |  |
|  |  | (µg/m )                  | (µg/m³)                 | Office | Classroom |                       |  |  |
| 75-07-0  | Acetaldehyde                               | 450                      | 70                      | 3      | 3         | Yes                   |  |  |
| 108-05-4   | Acetate, vinyl (Acetic acid ethenyl ester) | 350                      | 100                     | 12     | 10        | Yes                   |  |  |

<sup>a</sup>American Conference of Governmental Industrial Hygienists. Threshold Limit Values for Chemical Substances and Physical Agents. Cincinnati, OH: ACGIH.

<sup>b</sup>Chronic Reference Exposure Levels (CRELs) adopted by the State of California Office of Environmental Health Hazard Assessment (OEHHA).

<sup>†</sup>Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

<sup>1</sup>Indicates compound identified and quantified by DNPH derivitization and HPLC/UV analysis with multipoint authentic standard.

\*Identification based on NIST mass spectral database only.

\*\*Predicted Air Concentrations are based on modeling predicted concentration parameters shown above.