

**Distribution of Radioactivity 72 Hours Following Dermal Application of 8 mg/kg  
[<sup>14</sup>C]2-Ethylhexyl-*p*-Methoxycinnamate in Ethanol Vehicle to Male Harlan Sprague Dawley Rats  
Group 17b**

Percent of Dose Recovered in Excreta

| Sample          | Collection Interval (h) | 17b-01      | 17b-02      | 17b-03      | 17b-04      | Mean        | SD          |
|-----------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Urine           | 0 to 8                  | 1.14        | 0.37        | 0.63        | 1.38        | 0.88        | 0.46        |
| Urine           | 8 to 24                 | 9.29        | 7.25        | 7.50        | 8.67        | 8.18        | 0.97        |
| Urine           | 24 to 48                | 11.0        | 8.83        | 9.09        | 9.02        | 9.49        | 1.02        |
| Urine           | 48 to 72 <sup>a</sup>   | 7.42        | 8.10        | 7.13        | 7.02        | 7.42        | 0.49        |
| Cage Rinse      | 72                      | 2.14        | 2.65        | 1.36        | 2.12        | 2.07        | 0.53        |
| -               | <b>Subtotal</b>         | <b>31.0</b> | <b>27.2</b> | <b>25.7</b> | <b>28.2</b> | <b>28.0</b> | <b>2.2</b>  |
| Feces           | 0 to 24                 | 0.25        | 0.20        | 0.17        | 0.29        | 0.23        | 0.05        |
| Feces           | 24 to 48                | 0.52        | 0.58        | 0.36        | 0.58        | 0.51        | 0.10        |
| Feces           | 48 to 72                | 0.58        | 0.43        | 0.28        | 0.32        | 0.40        | 0.13        |
| -               | <b>Subtotal</b>         | <b>1.35</b> | <b>1.21</b> | <b>0.81</b> | <b>1.19</b> | <b>1.14</b> | <b>0.23</b> |
| CO <sub>2</sub> | 0 to 4                  | 0.06        | 0.04        | 0.04        | 0.07        | 0.05        | 0.02        |
| CO <sub>2</sub> | 4 to 8                  | 0.21        | 0.17        | 0.18        | 0.21        | 0.19        | 0.02        |
| CO <sub>2</sub> | 8 to 12                 | 0.26        | 0.19        | 0.22        | 0.31        | 0.25        | 0.05        |
| CO <sub>2</sub> | 12 to 24                | 0.76        | 0.58        | 0.06        | 0.79        | 0.55        | 0.34        |
| CO <sub>2</sub> | 24 to 48                | 1.03        | 0.84        | 1.32        | 1.00        | 1.05        | 0.20        |
| CO <sub>2</sub> | 48 to 72                | 0.83        | 0.60        | 0.68        | 0.73        | 0.71        | 0.10        |
| -               | <b>Subtotal</b>         | <b>3.15</b> | <b>2.42</b> | <b>2.50</b> | <b>3.11</b> | <b>2.80</b> | <b>0.39</b> |
| Exhaled VOC     | 0 to 4                  | BLOQ        | <0.005      | BLOQ        | <0.005      | <0.005      | N.A.        |
| Exhaled VOC     | 4 to 8                  | 0.01        | 0.01        | 0.01        | 0.01        | 0.01        | 0.00        |
| Exhaled VOC     | 8 to 12                 | 0.01        | <0.005      | 0.01        | 0.01        | 0.01        | 0.01        |
| Exhaled VOC     | 12 to 24                | 0.01        | 0.01        | 0.01        | 0.02        | 0.01        | 0.01        |
| Exhaled VOC     | 24 to 48                | 0.06        | 0.04        | 0.02        | 0.06        | 0.05        | 0.02        |
| Exhaled VOC     | 48 to 72                | 0.06        | 0.06        | 0.04        | 0.08        | 0.06        | 0.02        |
| -               | <b>Subtotal</b>         | <b>0.15</b> | <b>0.12</b> | <b>0.09</b> | <b>0.18</b> | <b>0.14</b> | <b>0.04</b> |
| <b>Total</b>    | <b>-</b>                | <b>35.6</b> | <b>31.0</b> | <b>29.1</b> | <b>32.7</b> | <b>32.1</b> | <b>2.8</b>  |

Distribution in Tissues (72 h)

| Tissue <sup>b</sup> | ng-eq/g Mean | ng-eq/g SD | TBR Mean | TBR SD   | Percent Recovery Mean | Percent Recovery SD |
|---------------------|--------------|------------|----------|----------|-----------------------|---------------------|
| Adipose Perirenal   | 287          | 97         | 2.67     | 1.09     | 0.24                  | 0.08                |
| Bladder             | 1100         | 1130       | 10.6     | 9.87     | 0.01                  | 0.00                |
| Muscle (hind leg)   | 27.9         | 5.1        | 0.29     | 0.06     | 0.13                  | 0.02                |
| Skin (abdominal)    | 117          | 6          | 1.21     | 0.12     | 0.26                  | 0.02                |
| Blood               | 97.7         | 8.5        | 1.00     | -        | 0.09                  | 0.01                |
| Plasma              | 161          | 10         | 1.65     | 0.06     | 0.08                  | 0.00                |
| Spleen              | 90.2         | 25.7       | 0.93     | 0.29     | <0.005                | N.A.                |
| Liver               | 385          | 19         | 3.95     | 0.21     | 0.16                  | 0.03                |
| Kidney              | 311          | 35         | 3.17     | 0.09     | 0.03                  | 0.00                |
| Brain               | 21.4         | 1.4        | 0.22     | 0.03     | <0.005                | N.A.                |
| Heart               | 57.3         | 6.6        | 0.59     | 0.03     | <0.005                | N.A.                |
| Lung                | 97.1         | 6.4        | 0.99     | 0.06     | 0.01                  | 0.00                |
| Stomach             | 123          | 17         | 1.26     | 0.14     | 0.01                  | 0.00                |
| Cecum               | 780          | 98         | 8.01     | 1.19     | 0.02                  | 0.01                |
| Large Intestine     | 205          | 59         | 2.07     | 0.44     | 0.01                  | 0.00                |
| Small Intestine     | 406          | 98         | 4.11     | 0.63     | 0.08                  | 0.03                |
| Thyroid             | 94.9         | 53.9       | 0.95     | 0.45     | <0.005                | N.A.                |
| Testes              | 34.3         | 3.7        | 0.35     | 0.05     | 0.01                  | 0.00                |
| Pancreas            | 144          | 18.5       | 1.49     | 0.28     | 0.01                  | 0.00                |
| <b>Total</b>        | <b>-</b>     | <b>-</b>   | <b>-</b> | <b>-</b> | <b>1.08</b>           | <b>0.16</b>         |

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Group 17b**

Disposition Summary – Percent of Dose Recovered

| Sample               | 17b-01      | 17b-02      | 17b-03      | 17b-04      | Mean        | SD         |
|----------------------|-------------|-------------|-------------|-------------|-------------|------------|
| <b>Absorbed</b>      | -           | -           | -           | -           | -           | -          |
| Urine <sup>c</sup>   | 31.0        | 27.2        | 25.7        | 28.2        | 28.0        | 2.2        |
| Feces                | 1.35        | 1.21        | 0.81        | 1.19        | 1.14        | 0.23       |
| CO <sub>2</sub>      | 3.15        | 2.42        | 2.50        | 3.11        | 2.80        | 0.39       |
| VOC                  | 0.15        | 0.12        | 0.09        | 0.18        | 0.14        | 0.04       |
| Tissues              | 1.17        | 1.10        | 0.84        | 1.20        | 1.08        | 0.16       |
| GI Tract Contents    | 0.40        | 0.27        | 0.31        | 0.32        | 0.33        | 0.05       |
| <b>Subtotal</b>      | <b>37.2</b> | <b>32.3</b> | <b>30.3</b> | <b>34.2</b> | <b>33.5</b> | <b>3.0</b> |
| <b>Unabsorbed</b>    | -           | -           | -           | -           | -           | -          |
| Gauze                | 9.07        | 14.6        | 10.6        | 10.1        | 11.1        | 2.4        |
| Tape                 | 0.67        | 2.53        | 2.12        | 0.73        | 1.51        | 0.95       |
| Appliance            | 24.5        | 17.8        | 24.1        | 15.6        | 20.5        | 4.48       |
| Dose site skin rinse | 0.70        | 0.85        | 3.54        | 0.05        | 1.29        | 1.54       |
| <b>Subtotal</b>      | <b>34.9</b> | <b>35.8</b> | <b>40.4</b> | <b>26.4</b> | <b>34.4</b> | <b>5.8</b> |
| Dose site            | 7.04        | 11.7        | 6.69        | 10.2        | 8.91        | 2.44       |
| <b>Total</b>         | <b>79.2</b> | <b>79.8</b> | <b>77.3</b> | <b>70.8</b> | <b>76.8</b> | <b>4.1</b> |

<sup>a</sup> Includes urine present in bladder at time of sacrifice.

<sup>b</sup> Tissue weights for dispersed tissues were calculated based on body weight as follows: adipose 7.0%, muscle 40.4%, skin 19%, blood 7.4%, and plasma 4.3%.

<sup>c</sup> Includes cage rinse.

SD = standard deviation.

TBR = Tissue to blood ratio.

N.A. = Not applicable.