

## ***Mammalian Toxicity of Pesticides and other Common Substances***

| <u>Substance</u>                      | <u>Toxicity (oral LD<sub>50</sub> for rats, mg/kg)</u> | <u>grams/150lb human</u> |
|---------------------------------------|--|--------------------------|
| Nicotine                              | 53   | 7.95                     |
| Rotenone                              | 132  | 19.8                     |
| Diazinon                              | 150 - 220  | 22.5 - 33                |
| Caffeine                              | 192  | 28.8                     |
| Acetaminophen (Tylenol®)              | 338  | 50.7                     |
| Aspirin                               | 1240   | 186                      |
| Ibuprofen (Advil® Motrin®)            | 1255   | 188.25                   |
| Malathion                             | 1375/5500  | 206.25/825               |
| Pyrethrin                             | 1500   | 225                      |
| Resmethrin (Scourge®)                 | 2700/4250  | 405/637.5                |
| Table Salt                            | 3320/4000  | 498/600                  |
| <sup>1</sup> Sumithrin (Anvil®)       | >5000  | >750                     |
| Glyphosate (Round-Up®)                | 4320/5000  | 648/750                  |
| <sup>1</sup> Piperonyl butoxide (PBO) | 6150/7500  | 922.5/1,125              |
| <sup>1</sup> Bti (VectoBac®)          | 30,000   | 4,500                    |
| <sup>1</sup> Methoprene (Altosid®)    | 34,600   | 5,190                    |
| <sup>1</sup> Etofenprox (Zenivex®)    | 42,880   | 6,432                    |

**NOTE:** LD<sub>50</sub> stands for lethal dose 50%. This means the dose that has a 50% probability of causing death. **Note that a *higher* LD<sub>50</sub> means the substance is *less toxic*.** Typical units are mg/kg, which means that the lethal dose in milligrams is divided by the animal mass in kilograms; this can also be referred to as *parts per million*.

<sup>1</sup>Products currently in use by the Central Massachusetts Mosquito Control Project - *piperonyl butoxide* reduces the amount of sumithrin required for mosquito mortality

sources: the Merck Index, manufacturer's MSDS, and the Internet website

[http://www.business.u-net.com/~freya/risk/ld\\_frame.html](http://www.business.u-net.com/~freya/risk/ld_frame.html)