

Mammalian Toxicity of Pesticides and other Common Substances

<u>Substance</u>	<u>Toxicity (oral LD₅₀ for rats, mg/kg)</u>	<u>grams/150lb human</u>
Nicotine	53	3.6
Rotenone	132	8.9
Diazinon	150 - 220	10.2 - 14.9
Caffeine	192	13
Acetaminophen (Tylenol®)	338	23
Aspirin	1240	84
Ibuprofen (Advil®)	1255	85
Malathion	1375/5500	93.5/374
Pyrethrin	1500	102
Resmethrin	2700/4250	183/289
Table Salt	3320/4000	225/272
¹ Sumithrin	>5000	340
Glyphosate (Round-Up® herbicide)	4320/5000	293/340
¹ Piperonyl butoxide	6150/7500	418/510
¹ Bti	30,000	2,040
¹ Methoprene	34,600	2,352

NOTE: LD₅₀ stands for lethal dose 50%. This means the dose that has a 50% probability of causing death. **Note that a higher LD₅₀ 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*.

¹Products 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