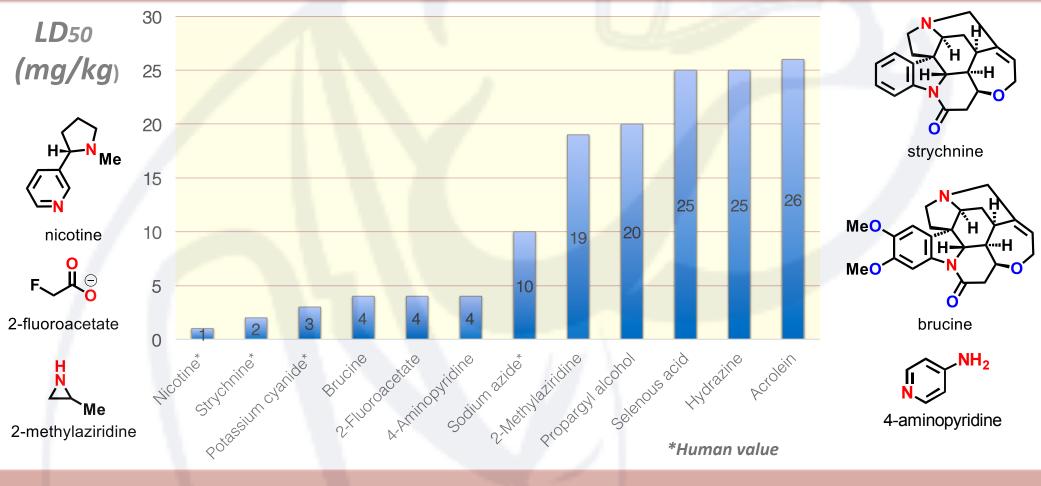
TOXIC MATERIALS



WHAT IS LD50? The median lethal dose is the amount of an ingested substance that kills 50% of a population. It is expressed in mg per kg of body weight. The lower the LD50, the more toxic the material. This value is determined using rats, mice or other small mammals. Occasionally, human LD50s are reported from poisoning case studies. For a quick conversion, the average graduate student weighs around 70 kg.

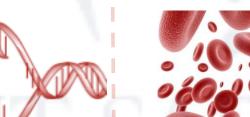
HOW TOXIC IS YOUR MATERIAL?



TYPES OF TOXIC MATERIALS

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<u>Neurotoxin</u>

- Brucine
- Strychnine
- Phosphoryl chloride
- Nicotine
- Organophosphates

DNA Alkylator

- Aziridines
- Mustard
 - gases
- Acrolein
- Methyl vinyl ketone

Inhibit Cellular

Respiration

- Cyanogens
- Cyanides
- 4-Aminopyridine
- Azides
- Thiophenol
- Nitriles

Chemical

- **Asphyxiant**
- Phosgene
- Sarin gas
- Phosphorous

trichloride

Hydrazines

Cardiovascular

Toxin

- Selenides
- 2,4-
 - Dinitrophenol
- Epinephrine

Scan this QR code to learn more about storage, handling and disposal of toxic materials!

