

# Gosselin Numbers

## TOXICITY RATING FOR HUMANS (70 KG BODY WEIGHT)

Rating/Class	Dose
6. Super toxic	<5 mg/kg
5. Extremely toxic	5–50 mg/kg
4. Very toxic	50–500 mg/kg
3. Moderately toxic	0.5–5 g/kg
2. Slightly toxic	5–15 g/kg
1. Practically nontoxic	>15 g/kg

**SOURCE:** Gosselin, et al. (1984). *Clinical Toxicology of Commercial Products*. Baltimore: Williams & Wilkens.

The short-term poisoning potential (acute toxicity) of a substance is measured by the amount needed to kill half the population of a test species, called the LD50 (lethal dose for 50 percent). The measurement is expressed as milligrams per kilogram of body weight (mg/kg). For example, administering to mice a substance with an LD50 for mice of 10 mg/kg would kill 50 percent of a population of mice. In environmental studies, the term used to measure toxicity in air or water is LC50 (lethal concentration for 50 percent), defined similarly to LD50 and expressed as parts per million, parts per billion, or milligrams per liter (mg/l).

## TOXICOLOGICAL INFORMATION ProSol L-HT (from MSDS)

**SKIN:** The LD50 for skin absorption in rabbits is >10, 000 mg/kg.

**INGESTION:** The oral LD50 for rats is 20,000 - - 34,000 mg/kg.

**MUTAGENICITY:** In vitro mutagenicity studies were negative. Animal mutagenicity studies were negative.