



MILORGANITE SAFETY

Trusted for over 90 years

Milorganite is produced with your safety in mind every single day. It complies with all applicable federal and state requirements and can be used with confidence for all of your fertilizing needs, including lawns, trees, shrubs, flowers, and vegetables.

Milorganite meets stringent criteria imposed on any fertilizer product for health, safety and the environment and is more heavily regulated by the United States Environmental Protection Agency (EPA) than synthetic fertilizers.

Daily Testing for EPA and State Standards

Milorganite is intensively analyzed to ensure compliance with all applicable standards established by the U.S. Environmental Protection Agency (EPA) and every state in which Milorganite is sold. Metals and other pollutants and pathogens are analyzed daily. As shown by the table, metals concentrations in Milorganite are much less than allowed for an Exceptional Quality product.

The Truth About Metals

Metals are not all bad. Some metals are micronutrients and are necessary in small amounts for plants to grow and reproduce, including copper and zinc, which naturally occur in the environment. For a product like Milorganite, federal and state regulations have established limits for metals to protect public health and the environment. Milorganite contains metals at levels found safe by the EPA when Milorganite is used as directed. Milorganite has over 90 years of experience producing a product that is both safe and effective.

Heat Drying Kills Pathogens

Milorganite is heat-dried in large-scale, bus-sized rotary dryers that operate at 900–1200°F. The extreme heat and dryness kills pathogens.

Metals and Fertilizer Micronutrients
Milorganite vs. U.S. EPA Limits

Metals and Micronutrients	EPA Exceptional Quality Limit	2019 Milorganite Average
Arsenic	41 mg/kg	3.9 mg/kg
Cadmium	39 mg/kg	0.92 mg/kg
Chromium	No Limit	200 mg/kg
Copper*	1,500 mg/kg	220 mg/kg
Lead	300 mg/kg	34 mg/kg
Mercury	17 mg/kg	0.14 mg/kg
Molybdenum*	75 mg/kg	9.4 mg/kg
Nickel	420 mg/kg	25 mg/kg
Selenium	100 mg/kg	4.1 mg/kg
Zinc*	2,800 mg/kg	420 mg/kg

* Essential micronutrients

No Salts or Added Pesticides or Herbicides

Milorganite is composed of organic matter and nutrients and contains no added pesticides or herbicides. It will not burn. It will not hurt your family or the environment.

Children and Pets

There's nothing more important than the safety of your children, canine companions, and other family pets. For more than 90 years, Milorganite has been safely used on family lawns and gardens without harming children, pets or the surrounding environment.

Some dogs have a strong interest in Milorganite, and the consumption of large amounts may cause digestive problems. Keep open bags away from dogs. After spreading, monitor your dog to determine interest. Watering may reduce the attraction or keeping your dog off the lawn for 24 hours after applying.

Non-Leaching Phosphorus

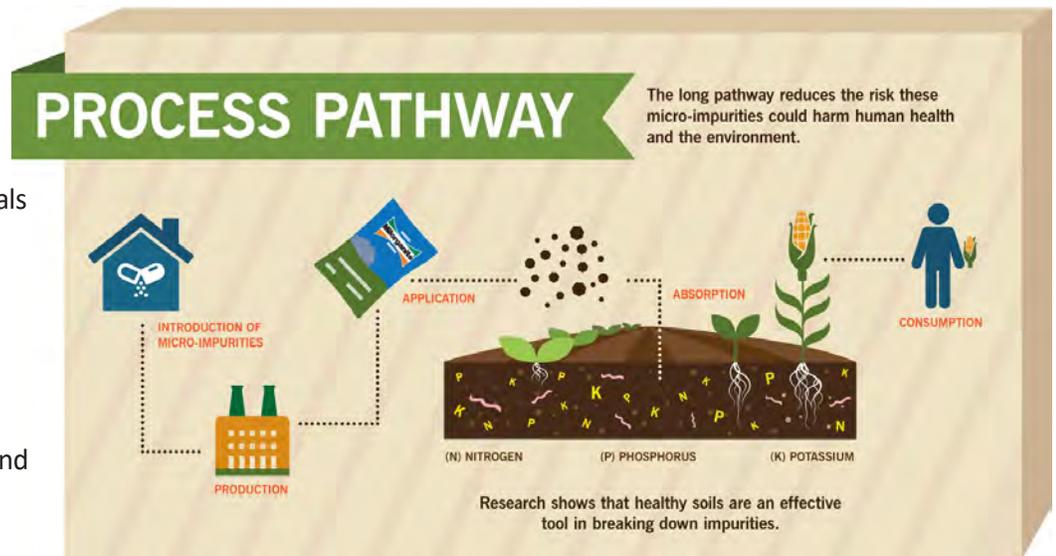
Phosphorus in runoff is a significant pollution problem. Excess phosphorus causes algae blooms, fish kills, and odors. Plants, including grass, need phosphorus. It contributes to important functions such as root development and growth. The phosphorus in Milorganite is slow-release, reducing the risk that phosphorus will leach from soils into surface or groundwater. In contrast, other fertilizers often contain quick-release phosphorus that is more likely to leach.

Micro-impurities: Pharmaceuticals and Personal Care Products

In modern society, it's inevitable that trace amounts of pharmaceuticals and personal care products will be present in wastewater. Although detectable, concentrations of these compounds are extremely low in Milorganite.

From water reclamation and Milorganite production, to harvest and consumption; it's a long pathway for these micro-impurities to reach humans. The risk they pose to people and the environment is extremely low and is reduced at every step along the way. Milorganite is a leader in investigating the risk caused by these compounds.

One study found that Triclosan—a commonly used antibacterial, antifungal agent used in a range of products from soap to toothpaste—was detected at very low levels in vegetables fertilized with Milorganite, with corn having the highest concentration. A 154 lb person could eat up to 1,249 lbs of this corn daily without any adverse effect, indicating that the risk of Triclosan exposure from Milorganite is extremely low.



Item Tested	% Triclosan
Toothpaste (Colgate®)	0.30%
Milorganite®	0.0002%
Sweet Corn Fertilized with Milorganite®	0.000003%

Source: Dr. George Snyder. "Uptake of the Pharmaceutical Triclosan in Vegetables Fertilized with a Triclosan-containing Biosolids." University of Florida, 2013.

