

THIOGUARD® TST



Premier Technical Resources — Magnesia Specialty Chemicals

Odor, Corrosion, Fog, Biological, and Biosolids Treatment

Did you know?

THIOGUARD® is one of the few “complete” treatment chemistries available for the waste-water market.

Mg⁺² divalent cations aid in settling and dewatering, improving effluent quality for BOD and TSS and improving biosolids handling, dewatering and disposal costs.

OH⁻ anions provide alkalinity and neutralization for acids produced during biological processes, and optimal pH range and stability.

**ALL THAT,
IN ADDITION TO ODOR
AND CORROSION
CONTROL!**



THIOGUARD® TST is a non-hazardous application with no required reportable quantities (RQ = None)

Find us online at:
www.THIOGUARD.com
or contact your local

Premier Chemicals Representative

What happens to THIOGUARD® in my system?

Q: Where does the slurry of suspended magnesium hydroxide solids, or milk of magnesia, go when it is added to a biological wastewater stream?

A: In short, approximately three quarters of what’s added in each gallon of Mg(OH)² becomes water. The major balance becomes soluble salts with minor organic and inorganic compounds going to biosolids and effluent, the fractions and compositions of which are predicated by the treatment biology and operating conditions.

Some Mg⁺² ends up in the biosolids:

- 1) Intercellular—From Divalent Cation Bridging,
- 2) Intracellular—Biological uptake, enzymatic catalysis, protein synthesis and structure, and

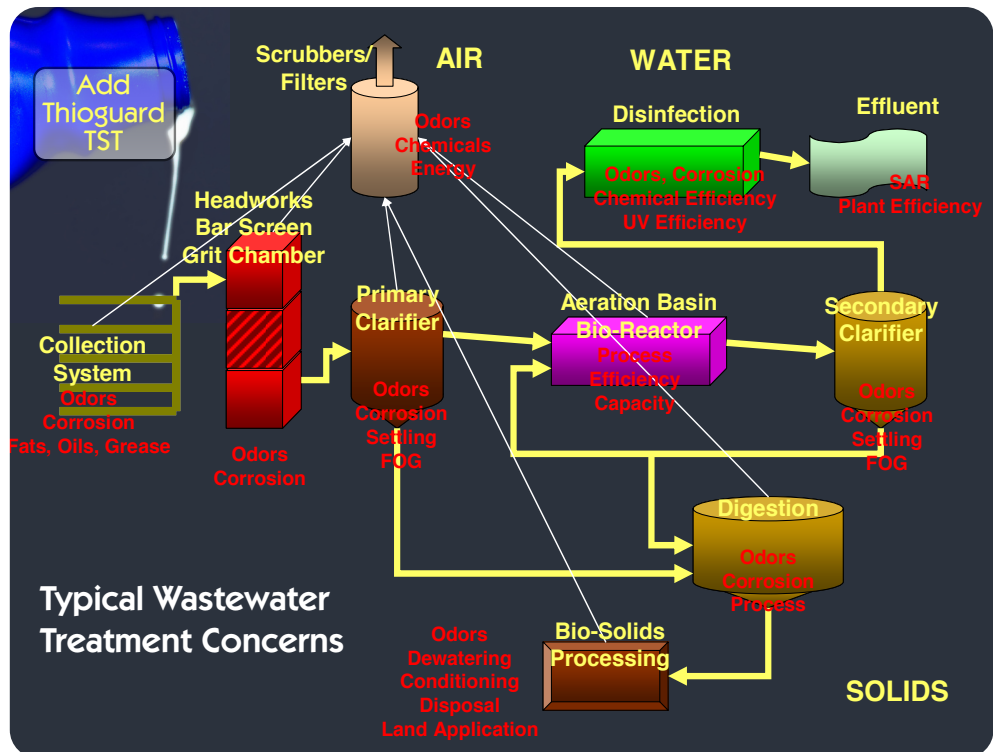
energy regulation, production and transport—chiefly ATP.

Some Mg⁺² passes through with the wastewater effluent as soluble magnesium salts (Cl⁻, SO₄⁻, HCO₃⁻, etc.).

A large fraction of the OH⁻ neutralizes H⁺ and ends up as water.

A lesser, but not insignificant fraction of OH⁻ neutralizes CO₂ and ends up as bicarbonate alkalinity.

THIOGUARD®, as a treatment chemistry for odor and corrosion control, supplies cations and anions that are BOTH beneficial to wastewater treatment processes.



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