

SONOGARD[®] corrosion inhibition additive

SonoGard is an economical, concentrated powdered ferrous corrosion-inhibiting additive for water treatment including ultrasonic immersion.

Benefits

- Highly effective ferrous corrosion (rust) inhibitor that is compatible with most metals
- Inhibits bacterial and fungal growth
- Powder concentrate - lower cost, less clean-up, easy handling, no toxic fumes (**SonoGard powder reduces shipping weight and cost while conserving storage space.*)
- SonoGard has no flashpoint and is not volatile
- Almost non-toxic – free of chromates; should not be taken internally due to its oxygen suppressing characteristics.
- Compatible with Echowet and Echocide

Safety

When mixed in water in the recommended proportions, SonoGard is low in toxicity. See MSDS for precautions regarding concentrated powder. SonoGard is non-petroleum, not caustic and is free of chromates.

SonoGard contains Sodium Nitrite. Rubber gloves are recommended for handling the concentrate.

Do not release SonoGard directly into waterways without prior treatment. See "Recommended Method for Treatment of Aqueous Solutions of Sodium Nitrite" data sheet for pre-treatment options prior to flushing to secondary treatment facility.

Properties (of recommended dilutions)

pH : ~9.0

Halogens <50 ppm; Sulfur: <50 ppm

Packaging

5 lb. pail

25 lb. pail

Corrosion Protection

Rust and corrosion are initiated when oxygen, water and carbon dioxide combine on a metal surface, which then sets up an electrical potential between the pure iron and other elements in the metal. Rust forms on the surface and allows the corrosive action to spread.

When one of the three elements is eliminated, the electrical potential is removed. SonoGard engages free oxygen and neutralizes acid impurities which prevents the initiation of the corrosive process. SonoGard prevents oxygen corrosion, electrolytic corrosion, stress corrosion and crevice corrosion.

Galvanic Action begins when two different metals are in contact and one begins to rust quickly. An electrochemical action occurs creating short-circuited electricity between the metals, causing corrosion acceleration.

SonoGard prevents galvanic action by disengaging the electrical potential between the two different metals.

Spot rusting caused by microscopic metal impurities is prevented with a passive coating of SonoGard.

In-use concentration can be determined using commercially available sodium nitrite test kits.

Recommended Addition*

SonoGard Low to medium number of ferrous parts:
0.18% (1.5 lb per 100 gallons)

Higher number of ferrous parts; longer-term protection:
0.3% (2.5 lbs. Per 100 gallons)

**Actual amount is directly related to throughput of ferrous parts. A test kit is recommended to monitor SonoGard concentration.*

Note: SonoGard cannot be shipped by air

