



# Technical Data Sheet

## Gem Rust Killer & Metal Prep

**GEM RUST KILLER & METAL PREP** is a balanced formula of phosphoric acid, wetting agents and extenders. It chemically changes iron oxide (rust) to iron phosphate, forming a tough undercoating which inhibits re-rusting.

Paint can then adhere so closely to the metal preventing moisture and oxygen from attacking the surface, thus resulting in a much longer enduring paint job. It is a rust-inhibiting coating, **NOT A PAINT**. Surfaces should be top coated after treatment. It is equally effective for both exterior and interior use.

Rust inhibitors are recommended by paint manufacturers. **GEM RUST KILLER & METAL PREP** meets USDA 1996 guidelines for use in federally inspected meat and poultry plants and current NSF requirements for Registration # 122378, code R2.

**APPLICATION:** Remove any grease and oil with a water-based degreaser. Remove any paint and heavy rust with a wire brush or other means. Protects welded joints and sandblasted metal from flash rusting. Cover surface with **GEM RUST KILLER & METAL PREP** directly from the container using a plastic or stainless sprayer, nylon brush, a roller, or by immersing smaller items. Metal treated, develops a grayish to black surface. To get a smooth surface, wipe dissolved residue with a clean cloth or scuff pad moistened with **GEM RUST KILLER & METAL PREP**. This does not need to be rinsed. **LET DRY OVERNIGHT**. Oil based primer should be used with water-based paint. A cured surface which is rinsed or exposed to rain often turns a light gray color, excessive dew and humidity may prolong drying time and produce a powdery build up. Brush away loose powder before painting. For best results, use at temperatures between 65 and 90 degrees Fahrenheit. One gallon covers approximately 600 square feet. Clean equipment with water after use. **AVOID: Contact with painted surfaces, concrete, masonry and stonework.** Flush immediately with water if splashing occurs.

**GEM RUST KILLER & METAL PREP** safely dissolves bleeding rust from porcelain, tile, marble, masonry, fiberglass, etc. Pour a small amount on a clean cloth and rub well over the surface. Rinse with clean water.

**PRECAUTION:** Store **GEM RUST KILLER & METAL PREP** in original container only.

**DE-RUST WITH ACID BATH:** Use plastic container only. Fill with full strength **GEM RUST KILLER & METAL PREP**. Part must be free of any oil or dirt. Submerge parts in bath. A chemical re-action occurs resulting in a "boiling" appearance. Keep a close eye on thin steel parts that can be eaten away. Mild rust vanishes in 10 to 20 minutes when exposed to fresh acid. Heavier rust takes longer, even to being soaked overnight.

**GALVANIZED:** For light rust cover area and allow to dry. Repeat application if rust is still evident. For heavy rust use repeated applications, keeping the surface wet until rust softens before allowing to dry. After thoroughly dry, inspect to verify there is no signs of rust remaining. Repeat if rust is still evident. **LET DRY OVERNIGHT**. Remove any loose powder and apply oil based paint. Where appearance is important, apply one coat to etch metal. Wipe to a smooth finish, let dry, then paint.

**CHROME:** Apply full strength keep wet until rust softens, wipe with clean cloth allow to dry. Apply auto wax immediately.

**CAUTION:** Contains phosphoric acid. Use in well ventilated area, suitable precaution should be observed (such as wearing rubber gloves, goggles and protective clothing) when handling product. Avoid contact with eyes and prolonged contact with skin or clothing. Do not swallow.

For spray mist use NIOSH/MSHA acid respirator with face piece. During severe exposure, use self-contained breathing apparatus.

### FIRST AID:

- **IF SWALLOWED:** Rinse mouth. **Do Not** induce vomiting.
- **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
- **IF INHALED:** Remove person to fresh air and keep comfortable for breathing.
- **IF IN EYES:** Rinse cautiously with cool water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

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**Read Safety Data Sheet Carefully Before Handling**

**KEEP OUT OF REACH OF CHILDREN**

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