

PROTECTSOL 512

Water Displacing Ultra-Thin Film,
Non-Emulsifiable, Non-Staining, Alkali Resistant,
Corrosion/ Rust Preventive

Product Bulletin



PROTECTSOL 512

is liquid solvent-based water-displacing corrosion/rust preventive for use on non-ferrous/ferrous metal surfaces. Protectsol 512 provides indefinite long term indoor storage protection against corrosion and rust with an ease of application. Protectsol 512 dries quickly to form a thin, nonstaining transparent and highly protective film. Protectsol 512 will quickly separate alkaline water from metal surfaces.

FEATURES & BENEFITS

- Provides corrosion & rust protection when stored indoors for an indefinite period of time. Companies may expect years of protection under proper storage conditions.
- Meets and exceeds Mil-C-16173 Grade 3 Federal Specification
- Meets and exceeds Mil-C-22235 Federal Specification for corrosion preventive
- De-waters all water miscible solutions such as coolants, cleaners, rinses
- Protectsol 512CA can be used safely on non-ferrous and ferrous metal surfaces
- Meets and exceeds Mil-C-16173 Grade 3 Federal Specification for water displacing corrosion

preventive compound: nonvolatile base in petroleum solvents. Dip, spray or brush method. Extended undercover protection.

- Meets and exceeds Mil-C-22235 Federal Specification for corrosion preventive oil, non-staining properties. Dip, spray, or brush method.
- Ultra thin and transparent film: Will not interfere with inspection or the reading of identifying marks. Thickness approximately 0.07 mils.
- Approximate 2000 to 3000 sq. ft./gallon coverage.
- Relative humidity testing no effect after 60 days.
- May be applied directly to parts after rinsing, to parts wet with soluble oil emulsion or to accidentally wet with water.
- Protectsol 512's "polar attraction" to metal surfaces makes possible an even film that does not crack with expansion and contraction of the metal. The film is self-healing if abraded. Does not allow attack of metal from alkali and/or acid components in the atmosphere.
- Protectsol 512 protects metal parts from finger printing and thus, corrosion. Therefore, air-tight wrapping is eliminated for packaged parts and/or assemblies.
- Protectsol 512 can be used safely on non-ferrous and ferrous metals.
- Application can be dip, spray or brushing.

Protect Your Investment.

Chemical Solutions for Today's Challenges

American Research Specialty Products

2535 Palos Verdes Drive West, Suite 208, Palos Verdes, CA 90274

Ph: 310-541-1512 Email: info@americanresearchproducts.com

ISO 9001:2000 certified

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- “Drag-out” from cleaner/degreaser dip tanks and rinse tanks into a dip tank of Protectsol 512 will not interfere with the proper coating of same. Accumulated drag-in of water should be drained periodically from the bottom of the tank. Water never mixes with the Protectsol and always drops to the bottom of the tank. Parts that are dipped and withdrawn from the Protectsol tank are always in 100% Protectsol.
- When it becomes necessary to remove the Protectsol 512 from the metal surface it is accomplished by using American Research Products Americlean 30MPA, which provides 100% removal of the Protectsol 512.

OPERATING CONDITIONS

| Property | Typical value |
|---------------|---------------------------------|
| Concentration | As received; 100% by volume |
| Temperature | Unheated; room temperature |
| Time | As required to wet all surfaces |

No solution control is required. Periodic additions should be made to maintain operating volume. For dipping tanks, a volume sufficient to completely cover parts being immersed. Periodically drain water from the bottom of the process tank.

Protectsol 512 is not a corrosion/rust remover and should be applied only to surfaces which are clean and free of corrosion.

Apply by either: dip, spray or brushing, whichever is practical for the application.

PROPERTIES

| Property | Typical value |
|------------|----------------------|
| Color | Liquid brown color |
| D.O.T. | “Combustible Liquid” |
| Flashpoint | 150° minimum |
| Density | 6.6 lbs/gal |

The dried film of Protectsol 512 is not a fire hazard nor is it combustible. Only the LIQUID PRODUCT is combustible.

PRECAUTIONS

Safety and handling

The following suggestions for handling have been prepared in accordance with a pattern established by the American National Standards Institute, Publication ANSI Z 129.1.

CAUTION: COMBUSTIBLE LIQUID. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. IN CASE OF FIRE USE FOAM, CARBON DIOXIDE OR DRY CHEMICAL. MAY CAUSE IRRITATION. AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY AFTER HANDLING.

FIRST AID: In case of contact, immediately flush with water for at least 15 minutes. Call a physician. Flush skin with water; wash exposed area with soap and water.

PRECAUTIONARY INFORMATION

Since petroleum solvents may effect non-metallic parts such as plastics, paper, rubber etc., if such a type of material is on the part to be protected with Protectsol 512 test these parts in the Protectsol 512 before applying. Adequate ventilation should be provided when any petroleum product is applied by spraying. Protectsol 512 has a petroleum solvent carrier.

WASTE DISPOSAL

This product should not be discarded or discharged into any sanitary sewer or surface drains. To meet pollution control regulations now being enforced by local authorities, we recommend that all chemical products be stored and used in locations which will not permit direct access to any sanitary or surface drains. These areas should be constructed in such a manner to contain any possible spillage.

PROTECTSOL 512 when applied properly is 100% consumed on the metal surface and should never be rinsed. Thus it should not create a problem with waste disposal or discard.

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