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RUST VETO M.P.

Data Sheet

RUST PREVENTIVE CONCENTRATE DILUTES WITH WATER, OIL OR SOLVENT

Rust Veto M.P. is a highly effective multipurpose (M.P.) rust preventive concentrate. It can be emulsified with water to eliminate a hazard of a plant fire from flammable products. M.P. is also miscible with solvents or oil, and can be used neat.
This concentrate contains rust inhibiting additives and emulsifiers. It leaves a clear, thin, slightly oily film when mixed with solvent, oil or water, depending on the dilution. The degree of protection from rust depends on the amount of Rust Veto M.P. used and the quantity and type of diluent.

Typical physical properties

Appearance	:	clear liquid
Colour	:	amber
Total Alkalinity	:	2.6
pH 3%distilled water	:	9 about
Conductivity at 25°C	:	550 µS
Test Weiss	:	pass

Features

- dilutes with water, oil or solvent.
- wide range of uses.
- economical emulsions protect against rust.
- emulsions help keep plants safer from fire; replace dangerous solvents, slushes.
- solvent mix is water displacing.

Application

Fire-resistant rust preventive Can be mixed with water to make a stable emulsion that prevents rust and stops a potential plant fire hazard. For general use, mix 1 part M.P. with 3, 4 or 5 parts water. This emulsion replaces flammable solvents. Sprinkler or $C0_2$ systems are not needed to protect conveyorized dipping systems.
With oil For parts in process, Rust Veto M.P. added to a light viscosity mineral oil greatly increases rust inhibiting properties. The usual proportions are 1 part M.P. with 4 to 9 parts oil.
With Solvent A dilution of 1: 9 with solvent leaves an effective film for short periods of indoor storage. Heavier concentrations prolong the protection period.

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Extended indoor storage Use undiluted as an oil-type preservative for periods over 1 year.

Parts in process Blend with up to 10 parts Stoddard Solvent, mineral spirits or naphthas. Or use emulsions or oil blends.

Water displacement A 1: 1 or 1: 2 blend with Stoddard Solvent gives water displacing characteristics of the type required in government specification MIL-C-16173B, Grade 3.

Fingerprint suppression To suppress fingerprints, 9 parts of M.P. are blended with 10 parts Stoddard Solvent and 1 part water.

Over phosphated or blackened surfaces Apply a 1:3 up to 1:9 emulsion or oil dilution to increase protection against rust.

With cutting oils A 5% solution to cutting oils such as Houghton's Cutmax 105 increases ability to protect against rust.

How to use

To blend with water Rust Veto M.P. and water should be at a minimum temperature of 65°F. Add water slowly to the M.P. and stir to get a fine dispersion. Gradual mixing is best. (Do not add M.P. to water).

To blend with oil or solvent Simply mix M.P. with diluent. Slow blending is not necessary.

To apply: Apply mixtures by dip, spray or brush.

In general, the extent to which Rust Veto M.P. is diluted is related to the length and severity of the anticipated exposure of the product, and to the type of equipment to be coated.

Cautions

Avoid freezing of water mixtures. For application at temperatures over 150°F keep emulsion agitated.

When Rust Veto M.P. emulsion is applied to the interior of parts, allow to dry thoroughly before sealing or capping. (Heat will make the water evaporate faster. The protective film remains when the water evaporates).
Removal

Easily removed with petroleum solvent or alkaline cleaner. For soak tank, Cerfa-Kleen HST at 6-8 oz. per gal. at 160-200°F. For spray washer, Cerfa-Kleen HPW at 1/2-2 oz. per gal. at 160-200°F.

Performance

A bearings manufacturer uses Rust Veto M.P. at 1:2 with mineral seal oil to protect parts for inside storage for limited periods. For several weeks storage, parts are dipped in a blend of 9 parts M.P., 10 parts mineral seal oil and 1 part water. This solved a problem of rusting in hot, humid summer months.

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Press dies were batch ground and stored for later finish machining. A wax type rust preventive protected dies from rust but the fire department objected to the flammable solvent needed to remove it. This company switched to M.P. at 1: 3 with water. Cerfa-Kleen CST was used to clean the dies. Rust was prevented, a fire hazard was eliminated and costs were reduced 600%!

A heat treater uses M.P. 1: 3 with water to protect case hardened sheet metal screws prior to shipment.

An automotive company immerses chromeplated work in a blend of 1 part M.P. to 5 parts water at 140°F. Work is then immersed in a final hot water rinse. This treatment exceeds the 96 hour salt spray test requirement. M.P. film is hardly visible.
A mill was getting poor rust protection and staining on black continuous weld pipe after bundling. Also, there were brown rust stains after pickling and before slushing. We recommended a 1% solution of our Rust Veto 50 in the pickle process after two plain water rinses in order to hold the grey pickle surface of pipe; then, Rust Veto M.P. is used at 1: 4 with water, pipe is dipped at 150°F as the final coating.

Rust Veto M.P. has also been used in a 1:8 water dilution for the final pass on a 4-stand mill on coiled steel sheet and wire. Here, M.P. does a triple job. It's used for 1). the finish pass, 2). rust protection of the sheet steel and wire and 3). to aid as a draw coat in later operations.

During construction, a large steam generator plant used our Rust Veto M.P. to protect boiler tubes prior to installation. In this case, M.P. was applied at a ratio of 1: 3 with water by air spray. he excess was drained from the tubes and the resulting film dried by blasts of hot air.

Another application of Rust Veto M.P. is hydrotesting and protection of feed water heaters. In this instance, the emulsion is used 1: 5 to 1: 8. Nitrogen is used to speed evaporation of retained moisture.

N-98 APPROVAL:D.PETTA

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