Metal Guard® 512

Metal Guard 512 is a concentrated rust preventive compound that is diluted with mineral spirits, Stoddard solvent or high flash point mineral spirits to yield a general-purpose water displacing rust preventive.

Metal Guard 512 when diluted at a ratio of 3:1 (25% by weight Metal Guard 512 to 75% by weight mineral spirits), will yield an oily wet final film rust preventive. Other ratios may be used to produce heavier or lighter coating depending on customer requirements. The use of higher flash point mineral spirits will produce somewhat wetter and slower drying protective coatings.

Experimentation with small quantities of Metal Guard 512 and diluents is recommended to ensure compatibility and determine solubility when diluents other than mineral spirits are used.

Metal Guard 512 is a pourable viscous solution at temperatures above 70°F, and mixing is suggested prior to blending with the solvent diluent. The use of any solvents should be only in well ventilated areas. When using low flash point solvents, be sure to ground all tanks, drums and equipment to prevent static discharge. Keep all sources of spark or flame away from any areas in which flammable or combustible materials are in use.

Features & Benefits

Displaces rinse water to the bottom of the tank	Easily drawn off for continued use
Rapid water displacement	Improved corrosion protection
Used at room temperature	Improved safety
Thin protective “dry-to-touch” film	Improved appearance

Physical Data

Boiling point	> 300°F
Specific gravity	0.91
Percentage of volatility by	Less than 3%

volume	
Evaporation rate (butyl acetate =1)	Very slow
Solubility in water	Not soluble
Appearance and odor	Dark brown solution, viscous solvent smell

Typical Applications

- Final rust preventative after Black Magic coatings, even while still wet from the final rinse.
- Final rust preventative after Hubbard Hall's Mi-Phos zinc phosphate or manganese phosphate coatings.
- Final rust preventative after machining or cleaning operations.

Caution

Read and understand the OSHA Safety Data Sheet prior to using, working with or handling Metal Guard 512.

Harmful or fatal if swallowed. Contains petroleum distillates. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. If swallowed, do not induce vomiting. Call a physician immediately.

WARRANTY: HUBBARD-HALL INC. IS NOT RESPONSIBLE FOR THE MISUSE, MISAPPLICATION, OR MISHANDLING OF THIS PRODUCT. SEE THE TERMS AND CONDITIONS OF SALE ON OUR WEBSITE FOR ADDITIONAL TERMS AND CONDITIONS CONCERNING OUR PRODUCTS, INCLUDING BUT NOT LIMITED TO, LIMITATIONS AND DISCLAIMERS OF WARRANTIES AND LIABILITIES.

Our People. Your Problem Solvers.

For more information on this process,
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Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**[136]