EMS Protect-All

CONCENTRATED, WATER-BASED PROTECTANT

- Prevents Rust
- Non-Staining
- UV Protection
- Safe on Leather
- Safe on Wood
- Non-Yellowing
- Apply Every 45 Days

Protect-All is a concentrated, water-based formula that is will protect equipment from harsh elements for up to 45 days between applications.

Our formulation not only protects painted surfaces and equipment, it is safe to use on vinyl, plastic, tires, dashboards and soft tops. It's even great for leather and treated wood. Protect-All is non-staining and will not yellow over time and exposure to sun.

Simply spray, brush, mop or wipe on, then dry with a soft cloth. Once Protect-All has penetrated into the surface or material, it blocks out moisture, ozone, ultraviolet rays and oxidation. And as part of a regular maintenance program aids in the prevention of rust.

For technical support call 800-510-8812. For sales or product information call 877-424-6979 or visit www.enviromfg.com

Technical Data

NITRATE LEVEL: **0% - None**
FORM: **Liquid**
ODOR: **Odorless**
COLOR: **Milky White**
DETERGENCY: **None**
TOXICITY: **Non Toxic**
WETTING ABILITY: **Excellent**
STORAGE STABILITY: **3 Years+**
COLD STABILITY: **29° F**
SHIPPER REGULATIONS: **None**
FLASH POINT: **None**
BOILING POINT: **212° F**
SOLUBILITY IN WATER: **100%**
BIODEGRADABLE: **Yes/100%**
VOLATILE BY VOLUME: **N/A**
CARCINOGENS: **None**
VISCOSITY: **Medium**
EVAPORATION RATE: **Slow**

Use Specifications

Please refer to the product label.

Common Uses

Protect-All can be used in any environments on a huge variety of surfaces.

Uses
Paint Finishes
Chrome
Equipment Parts
Hoses
Plastic
Plexiglas
Leather
Vinyl

Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr.
LC 50 and LD 50 (rat oral) found to be NON-TOXIC

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals
Protect-All was found NOT TO BE MUTAGENIC

Dermal Irritation & Corrosion Test
A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals Sec. 404 and complies with the requirements of OECD Principles of GLP, Annex revised as of July 1992.

Protect-All received a Primary Irritation Score of 0.2 +/-0.1 and is classified as a "Non-Skin Irritant"

Biodegradation & Aquatic Safety
Test Procedure: Hach Reactor Digestion method for Waste Water and Sea Water. Hach Reactor Digestion Method is a semi-micro adaptation of the Standard Methods.

Test Results Conclude Protect-All was found to be 100% Biodegradable

Ecological Safety
96 hr LC50: Flathead Minnow >500 mg/l = Non-Toxic
96 hr LC50: Bluegill >16 mg/l = Non-Toxic
96hr LC50: Rainbow Trout >16 mg/l = Non-Toxic

Metal Studies

Dept. of Transportation (D.O.T.) Test Protocols as per Section 173.154 Exceptions for Class 8 (corrosive materials): The material being tested must be proven to be non-destructive or not to cause irreversible alterations in human skin tissue. Testing was conducted on an albino rabbit.

Conclusion: Protect-All proven to be NON-DESTRUCTIVE on human skin tissue.

Metal Test Limits: D.O.T. Classifies a material to be CORROSIVE if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 carbon steel.

Results of Protect-All: SAE 1020 carbon steel = 0.00 mmpy

Conclusion: Protect-All is NON-CORROSIVE

Classifications & Approvals

D.O.T., TDG, IMO, IATA, IMDG, SARA 313 311/312, California Prop 65
NON-Regulated

FDA
Approved as Safe (GRAS) (CGMP) CFR 184.1923

USDA Authorization
A1, A2, A8, C1, H1, H2

Mil Spec
Mil-PRF-87937
Mil-PFR-87937D

Additional Studies & Results: When tested, Protect-All showed no potential for the generation of Carbon Dioxide under NIOSH 7903, OSHA & ACGIH testing protocols governing workplace environments.