

## EMS Prep Wash II

ACID-FREE, NON-SOLVENT, NON-BUTYL PREP WASH

- 100% Synthetic Acid
- Non-Solvent
- Non-Butyl
- Non-Flammable
- Non-Fuming
- Non-Corrosive
- Floats Away Oils
- Non-D.O.T. Regulated
- Exceeds EPA Regs
- Water Soluble
- Safe on Plastic, Steel  
Aluminum and Fiberglass

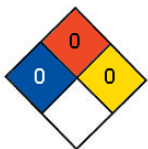
Until now, the only effective way to prepare surfaces for coating, plating and/or finishing has been to use harsh acids and solvents which pose significant dangers to the environment, equipment and to the person washing it.

EMS Prep Wash II is synthetic acid, solvent-free, non-butyl and biodegradable wash that floats away natural and stored oils from aluminum, steel, fiberglass and plastic as effectively as dangerous chemicals. Prep Wash II removes rust and will prevent rust prior to the coating process, all without leaving a residue behind.

The power of Prep Wash II comes from our patented SynTech<sup>®</sup>, the world's only synthetic acid. Equal in potency to hydrochloric acid, SynTech removes cement from ready mix trucks and descales lines of off-shore vessels. Yet it carries a triple zero Hazardous Materials Information System score, is rated as a non-corrosive and non-skin irritant, non-fuming, biodegradable and non-mutagenic to fish and wildlife. This allows SynTech to replace weaker phosphoric and sulfuric acids, normally used by your industry.

Like any EMS product, Prep Wash II earns a triple zero HMIS score. It is non-regulated by the D.O.T. and requires no secondary containment. This unmatched safety profile earns the recommendation of industry leading original equipment manufacturers - a claim no other prep wash can make.

As Prep Wash is non-fuming, it can be used in confined areas without a respiratory system or special ventilation. This unique product is so safe that it carries a USDA Authorization Category Code of A1 deeming it safe for use in and around food processing areas.



syn<sup>®</sup>tech

## Technical Data

NITRATE LEVEL: **0% - None**  
FORM: **Liquid**  
ODOR: **Soapy Odor**  
COLD STABILITY: **30° F**  
DETERGENCY: **Excellent**  
TOXICITY: **Non Toxic**  
WETTING ABILITY: **Excellent**  
STORAGE STABILITY: **3 Years+**

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: **Thin**

## Common Uses

Prep Wash II is a super concentrated industrial cleaner which at different dilutions can be used in almost countless environments to prepare for paint, coatings, etc.

Bulk Haulers  
Liquid Food Grade Haulers  
Live Stock Haulers  
Refrigerated Trucks & Trailers  
Pork & Poultry Haulers  
Citrus Haulers  
Farms  
Food Processing Facilities  
Beverage Haulers  
Recycling Facilities

## 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:** Prep Wash II 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 Prep Wash II: SAE 1020 carbon steel = 0.00 mmpy

**Conclusion:** Prep Wash II is NON-CORROSIVE

## Dilution Specifications

Please refer to the product label.

## 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**  
Prep Wash II 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.

Prep Wash II received a Primary Irritation Score of 0.4 +/-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 Prep Wash II was found to be **100% Biodegradable**

COD = **Low Detectable Limits**

BOD = **No Detectable Limits**

## 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, A4, A8, C1

### Mil Specs

Mil-C-25769-H  
Mil-C-87936-A

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