

# EMS Ready-Mix Truck Wash and Wax

WORLD'S ONLY NON-D.O.T. REGULATED AND OEM-APPROVED TRUCK WASH

- Removes Concrete
- Non-Corrosive
- 100% Acid Free
- Removes Grease & Soot
- Eliminates Rust
- Safe on Glass & Chrome
- Carnauba Bean Wax
- Anti-Stick Coating
- One-Step Process
- Non D.O.T. Regulated
- Exceeds OSHA and EPA Requirements
- Safe on Skin

Until now, the only effective way to remove concrete from ready-mix trucks has been to use harsh acids. While these acids eat away the concrete, they pose significant dangers to the truck, the environment and to the person washing it.

EMS Ready-Mix Wash and Wax is a non-corrosive, non-skin irritant, and biodegradable truck wash that removes concrete as effectively as traditional acids. Powered by SynTech®, the world's only synthetic acid, Ready-Mix Wash and Wax earns a triple zero HMIS score. Its unmatched safety profile and performance earns the approval and recommendation of industry giants Mack, Oshkosh, McNeilus and many others -- a claim no other wash can make.

Along with SynTech, this all-in-one wash contains the finest grease cutters, detergents, brighteners, natural rust inhibitors and natural bean waxes. A simple one-step application quickly removes grease, oil, rust, grime, dirt, diesel stains and soot and protects your substantial investment from the elements. Apply and rinse. No neutralizing step is required. It is so safe it can be left on overnight to loosen the heaviest buildup.

And because Ready-Mix Wash and Wax contains no acid and is non-corrosive, you can apply it to any part of the truck, including glass, chrome, aluminum, rubber, plastic and paint. Our newest formulation also boasts the benefits of SynGuard, our safe but potent anti-stick agent making it harder for stains and concrete to adhere to the truck.

Ready-Mix Wash and Wax exceeds all D.O.T. corrosion and EPA requirements and, as such, requires no secondary containment. It is rated as a non-hazardous chemical which means no protection gear is needed when using the product.

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## Technical Data

NITRATE LEVEL: **0% - None**  
FORM: **Liquid**  
ODOR: **Mild Soapy Odor**  
COLD STABILITY: **-37° 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**

## Dissolving Properties

Calcium Carbonate Dissolving Properties of Acids with 3 Minute Exposure

Acid	% Dissolved
<b>Ready-Mix Truck Wash and Wax</b>	<b>9.1</b>
HCl (Muriatic)	8.9
Urea HCl	7.2
Urea Sulfuric	6.1
Phosphoric	0.9
Citric	0.0
Lactic	0.2
Acetic	0.1
Glycolic	0.2
Gluconic	0.1
Rydylyme	0.3
Oxalic	0.0
Malic	0.4

### Test Conditions

200 grams of 5% active solution  
1 Calcium Carbonate Cube  
3 Minutes @ 70° F

Clearly, Ready-Mix Wash and Wax out performs other acids when it comes to dissolving calcium carbonate, except HCl (Muriatic) which is highly corrosive.

## 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:** Ready-Mix Wash and Wax was 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 Ready-Mix Wash & Wax: SAE 1020 carbon steel = 0.19 mmpy

**Conclusion:** Ready-Mix Wash and Wax is NON-CORROSIVE

## Dilution Specifications

New, reconditioned or well kept trucks:  
**Dilute 6:1**

Moderate buildup and regularly washed trucks:  
**Dilute 4:1**

Heavy buildup and seldomly washed trucks:  
**Dilute 2:1**

Extra Heavy buildup, rarely washed trucks:  
**Dilute 1:1**

Spray or brush on, agitate, rinse. Repeat as needed.

## Toxicity Studies

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

**Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals**  
Ready-Mix Wash and Wax 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.

Ready-Mix Wash and Wax received a Primary Irritation Score of .51 +/-0.2 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 Ready-Mix Wash and Wax 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, A3, A4, A7, A8, C2,  
G6 & G7

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