EMS Foro

NON-REGULATED, SYNTHETIC ACID LOW pH CLEANER

- Non-Corrosive
- 100% Synthetic Acid
- Non-Fuming
- Non-D.O.T. Regulated
- 100% Biodegradable
- Removes Rust
- Cleans Concrete
- Safe on Glass & Metal
- OSHA and EPA Compliant
- Safe on Skin

Design for the Environment U.S. EPA

Recognized for Safer Chemistry
www.epa.gov/dfe

Foro is a non-corrosive, non-skin irritant, and biodegradable cleaner capable effectively as traditional acids. Powered by SynTech®, the world's only synthetic acid, Foro earns a triple zero HMIS score. Its unmatched safety profile earns the recommendation of industry giants Mack, Oshkosh, McNeilus and many others -- a claim no other low pH cleaner can make.

And because Foro contains no acid and is non-corrosive, you can apply it to any kind of equipment. It is so safe it can even be left on overnight to loosen the heaviest mineral or calcium buildup. Any cleaning that once required the use of dangerous, toxic, acids can now be safely done with Foro. And becuase it is 100% synthetic, no neutralizing step is required. Simply rinse with water.

Foro is non-D.O.T. regulated, and is readily biodegradable per OECD 301D. Foro is non-fuming, will not corrode or rust metals and is 100% OSHA & EPA compliant.

Foro from EMS. Powered by SynTech. Safe by Design.

Foro has been recognized for safer chemistry by the EPA's Design for Environment program and is certified as a direct release product.

syntech®

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: **Mild Soapy Odor**
COLD STABILITY: **-26° F**
DETERGENCY: **Moderate**
TOXICITY: **Non Toxic**
WETTING ABILITY: **Excellent**
STORAGE STABILITY: **1 Year+**
SHIPPER REGULATIONS: **None**
FLASH POINT: **None**
BOILING POINT: **214° F**
SOLUBILITY IN WATER: **100%**
BIODEGRADABLE: **Yes/100%**
VOLATILE BY VOLUME: **N/A**
CARCINOGENS: **None**
VISCOSITY: **Thin**

Dilution Specifications

Please refer to the product label.

Dissolving Properties

Calcium OxideDissolving Properties with 3 Minute Exposure

Acid	**% Dissolved**
Foro	**16.9**
HCl (Muriatic)	8.9
Sulfamic	1.6
Formic	0.7
Phosphoric	0.9
Citric	0.0
Lactic	0.2
Acetic	0.1
Glycolic	0.2
Gluconic	0.1
Rydlyme	0.3
Oxalic	0.0
Malic	0.4

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

Clearly, Foro out performs other acids when it comes to dissolving calcium oxide, including HCl (Muriatic) which is highly corrosive.

Toxicity Studies

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

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals
Foro 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.

Foro received a Primary Irritation Score of .09 +/-0.2 and is classified as a "Very Mild 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 Foro was found to be 100% Biodegradable

COD = **Low Detectable Limits**

BOD = **No Detectable Limits**

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: Foro 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 Foro: SAE 1020 carbon steel = 0.59 mmpy

Conclusion: Foro 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)

USDA Authorization
A1, A2, A3, A4, A7, A8, C2, G6 & G7

EPA Design for Environment
Recognized for Safer Chemistry www.epa.gov/dfe

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

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