ARC Foro SapH Etch

NON-REGULATED, NON-ACID ETCHING SOLUTION

- Non-Corrosive
- 100% Synthetic Acid
- Non-Fuming
- Non-D.O.T. Regulated
- 100% Biodegradable
- Removes Rust
- Etches Concrete
- Safe on Glass & Metal
- Safer on Skin (Potential Mild Skin Irritant)

ARC Foro is a non-corrosive and biodegradable cleaner capable of etching concrete as effectively as traditional acids. Powered by SynTech®, the world's only synthetic acid, Foro earns a triple zero HMIS score in the USA.

ARC Foro SapH Etch can be used for a variety of uses. The ARC Foro formulation was made to replace 32% hydrochloric acid without the dangers associated with that hazardous cleaner. ARC Foro contains no acid and is non-corrosive. Because it is 100% synthetic, no neutralising step is needed. Simply rinse with water.

ARC Foro SapH Etch is the easiest etching product you have ever used. The extreme hydrogen load in ARC Foro's active ingredient, SynTech®, gives ARC Foro the punch it needs to dissolve calcium carbonate. Because the hydrogen in SynTech® has a much stronger bond to the H+ ion that those in acids, ARC Foro SapH Etch has a slower spending nature. This makes it ideal for use in detailed and architectural etching. Because ARC Foro is non-fuming, it can be used indoors where using HCl would be problematic.

In The USA, ARC Foro is non-D.O.T. regulated, and is certified as readily biodegradable per OECD 301D. Foro is FDA GRAS and considered non-hazardous by OSHA.

ARC Foro SapH Etch. Powered by SynTech®. Safe by Design.

+353 83 0964453
www.acsi.ie

Technical Data

BIODEGRADABLE: Yes/100%
FORM: Liquid
ODOR: Mild Soapy Odor
COLD STABILI TY: -32° C
DETERGENCY : Moderate
PHOSPHATES: None
WETTING ABILITY: Excellent

FLAMMABILITY: Non-Flammable
BOILING POINT : 101° C
SOLUBILITY IN WATER: 100%
VOCs: None
VOLATILE BY VOLUME: N/A
CARCINOGENS: None
SHELF LIFE: 1 Year

Dilution Specification

Please refer to the product label.

Dissolving Properties

Calcium Oxide Dissolving Properties with 3 Minute Exposure

ARC Foro SapH Etch 17.2
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
Oxalic 0.0
Malic 0.4

Test Conditions
200 grams of 5% active
solution 1 Calcium Oxide Cube
3 Minutes @ 21° C

Clearly, ARC Foro SapH Etch outperforms 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): **NON-TOXIC**

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals:
NON-MUTAGENIC

Dermal Irritation & Corrosion

A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals Se c. 404 and complies with the requirements of OECD Principles of GLP, Annex revised as of July 1992.

ARC Foro SapH Etch 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 .

Foro SapH Etch is **100% Biodegradable**.

Classifications & Approvals

D.O.T., IMO, IATA , IMDG - Non-Regulated

TDG - Non-Regulated to and through Canada

SARA 313 311/312 - This product does not contain any ingredients that are subject to the reporting requirements.

California Prop 65 - This product does not contain any ingredients known to the state of California to cause cancer, birth defects or any other reproductive harm.

FDA - Recognized as Safe (GRAS)

USD A A uthorizatio n
A1, A2, A4, A8, C3

DOT STATEMENT

Non-D.O.T. Regulated/Non-D.O.T. Hazardous
EXEMPT as per 49 CFR 173.154(d) (2) <6.25 mmpy

Storage and Handling

ARC Foro has a shelf life of more than one year. Product is freeze/thaw stable. Keep container closed when not in use. Safety glasses are suggested when handling this product. No special gloves or protective equipment are required. Due to the product's low pH, aluminum piping and fittings should not be used. Consult your authorized ARC representative for tank, piping, valve, hose coupling and fitting recommendations.

Mild Skin Irritant.

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