



EMS Barracuda

WORLD'S ONLY NON-REGULATED, OEM and DfE APPROVED CONCRETE STRIPPER

- Removes Concrete
- Non-Corrosive
- 100% Synthetic Acid
- Non-Fuming
- Non-D.O.T. Regulated
- 100% Biodegradable
- Safe on Glass & Chrome
- One-Step Process
- Exceeds OSHA and EPA Safety Requirements
- Removes Mineral Stains
- Safe on Skin

Barracuda is not only the most potent concrete stripper in the world, it is also the safest. Independent tests confirm that EMS Barracuda, formed with EMS' patented SynTech[®], the world's only synthetic acid, dissolves nearly 15% more concrete than hydrochloric acid. Still, that potency comes with a triple zero HMIS score. Which makes our concrete stripper safe on skin, safe for your equipment and safe to store anywhere you wish.

Barracuda 10k is so safe it is recommended by OEM leaders in the industry. Independent studies have shown Barracuda to be safe on paint, chrome, wiring, plastic, aluminum and even glass.

Barracuda contains no acid and is non-corrosive, allowing you can apply it to any kind of equipment. It is so safe it can be left on overnight to loosen the heaviest buildup. Ideal for cleaning forms, pavers, portable mixers, swimming pools, tools, windows, anywhere you find cement, gunite or mortar. Any cleaning that once required the use of dangerous, toxic acids can now be safely done with Barracuda. It is entirely synthetic, so no neutralizing step is required. Simply rinse with water.

Barracuda concrete stripper is non-D.O.T. regulated and is readily biodegradable per OECD 301D. Barracuda is non-fuming, will not corrode or rust metals and is 100% OSHA safety compliant.

Barracuda has been recognized for safer chemistry by the EPA's Design for Environment program and are certified as direct release products.



Recognized for Safer Chemistry
www.epa.gov/dfe



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: **210° F**
SOLUBILITY IN WATER: **100%**
BIODEGRADABLE: **Yes/100%**
VOLATILE BY VOLUME: **N/A**
CARCINOGENS: **None**
VISCOSITY: **Thin**

Dissolving Properties

Calcium Oxide Dissolving Properties with 3 Minute Exposure

Barracuda	10.3
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 @ 70° F

Clearly, Barracuda out performs other acids when it comes to dissolving calcium oxide, including 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: Barracuda 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 Barracuda: SAE 1020 carbon steel = 0.2433 mmpy
Results of Barracuda 10k: SAE 1020 carbon steel = 0.2703 mmpy

Conclusion: Barracuda and Barracuda 10K are NON-CORROSIVE

Guarantee

EMS guarantees this product to be free from urea hydrochloride, other organic salts and traditional acids, free from defects and true to its contents. When used per label directions and dilutions, EMS guarantees the use of this products will not void your manufacturers vehicle warranty for rust, corrosion and paint.

Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr.

LC 50 and LD 50 (rat oral) scores found Barracuda to be NON-TOXIC.

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals

Barracuda 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.

Barracuda 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 Barracuda 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)

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, Barracuda showed no potential for the generation of Carbon Dioxide under NIOSH 7903 OSHA & ACGIH testing protocols governing workplace environments.