



Direct Distributor

**CLEANSE IT ALL GLOBAL**  
 Environmentally Safer Cleansing Agents

### 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

### 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.

### Dissolving Properties

Calcium Carbonate Dissolving Properties of Acids with 3 Minute Exposure

<b>Barracuda 10K</b>	<b>16.9</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
Oxalic	0.0
Malic	0.4

#### Test Conditions

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

Clearly, Barracuda 10K out performs other acids when it comes to dissolving calcium carbonate, including HCl (Muriatic), urea HCL which are highly corrosive.

### Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr. LC 50 and LD 50 (rat oral) scores found Barracuda 10K to be NON-TOXIC.

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals Barracuda 10K was found NOT TO BE MUTAGENIC

#### Dermal Irritation & Corrosion Test

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 10K 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 10K 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: Barracuda 10K 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 10K: SAE 1020 carbon steel = 0.2433 mmpy

Conclusion: Barracuda 10K 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

Additional Studies & Results: When tested, Barracuda 10K showed no potential for the generation of Carbon Dioxide under NIOSH 7903, OSHA & ACGIH testing protocols governing workplace environments.

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