

Barracuda

WORLD'S ONLY NON-REGULATED AND OEM-APPROVED CONCRETE STRIPPER

- Removes Concrete
- Non-Corrosive
- 100% Acid Free
- Non-Fuming
- Non-D.O.T. Regulated
- 100% Biodegradable
- Safe on Glass & Chrome
- One-Step Process
- OSHA and EPA Compliant
- **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 Barracuda, formed with EMS' patented SynTech®, the world's only synthetic acid, dissolves nearly 15% more concrete than Hydrochloric acid. Still, all that potency comes with a triple zero Hazardous Material Index Score. Which makes our concrete stripper safe on skin, safe for your equipment, and safe to store anywhere you wish.

Barracuda is so safe it is recommended by leaders in the cement industry including Mack, McNeilus, Oshkosh, London and Indiana Phoenix. It is safe on paint, chrome, aluminum, wiring, plastic and even glass.

And because Barracuda 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 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. And because it is 100% synthetic, 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 & EPA compliant.

Barracuda is available in its original version and Barracuda 10k, designed to remove even the heaviest mixes.





























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

Dilution Specifications

Barracuda 10k

Heavy to extra heavy buildup: Severe buildup: Dilute 2:1 Dilute 1:1

Barracuda

Light to moderate, everyday buildup: Moderate to heavy buildup: Dilute 6:1 Dilute 4:1

Heavy to extra heavy buildup: Severe buildup: Dilute 2:1 Dilute 1:1

Apply to buildup, agitate, rinse. Repeat as needed.

May be left overnight.

Dissolving Properties

Calcium Carbonate Dissolving Properties of Acids with 3 Minute Exposure

Acid Barracuda 10k	% Dissolved 16.9
Barracuda	10.3
HCI (Muriatic)	8.9
Urea HCI	7.2
Urea Sulfuric	6.1
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 Carbonate Cube

3 Minutes @ 70° F

Clearly, Barracuda out performs other acids when it comes to dissolving calcium carbonate, including HCI (Muriatic) which is highly corrosive.

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

 ${\tt BOD} = \textbf{No Detectable Limits}$

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 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: SAE 1020 carbon steel = $0.2703 \,$ mmpy

Conclusion: Barracuda and Barracuda 10K are NON-CORROSIVE

Classifications & Approvals

D.O.T., TDG, IMO, IATA, IMDG, SARA 313 311/312, California Prop 65 NON-Regulated

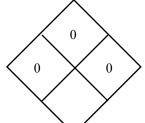
FDA

Approved as Safe (GRAS) (CGMP) CFR 184.1923

USDA Authorization

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

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.



N/A



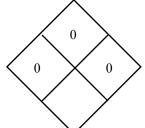


This MSDS complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.and OSHA FORM 174. OMB No. 1218-0072

Identity (Trade Name As Used On Label)

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SECTION 1 - COMPANY/PRODUCT INFORMATION			IDENTITY: BARRACUDA		
Manufacturer's Name: Environmental M		<u> </u>	CAUSE FOR MS	DS: 29CFF	R Regs
Address: 7705 Progress Circle		<u> </u>	MSDS Number:	N/A	
Melbourne, Florida 32904			Date Prepared:	05/05/04	ļ.
Phone Number (For Information):	321-837-0050		Note: Blank spaces are no		
	300-424-9300		or no information is availab	le, the space must be	marked to indicate that.
		<u>-</u>			
SECTION 2 - HAZARD INGR	EDIENTS/IE	DENTITY INFO	DRMATION		
COMPONENTS - Chemical Name & Component Names (Hazardous Co	mponents 1% or greater. (Carcinogens 1% or greater	OSHA PEL	ACGIH TLV	OTHER LIMIT RECOMMENDED
PROPRIETARY TRADE SECRET PERMITTED			N/A	N/A	N/A
NON-Hazardous, NON-DOT Regulated, NON-Nitr	ate Formula				
NOTICE: Under SARA: Section 313 (Toxic Chem	ical Release Repo	rting) 40 CFR 372			
NONE of the ingredients of this product are listed	as Toxic Substanc	es under TSCA			
SECTION 3 - PHYSICAL / CHE	MICAL CH	ARACTERIST	ICS		
Boiling Point 210° F Specified Gravity (H2O =		= 1) 1.10			
Vapor Pressure (mm Hg.) 16 Melting Point N/A					
Vapor Density >1 Evaporation Rate (Butyl A		Acetate = 1) <.01			
Solubility In Water 100% Appearance and Odor		Light Yellow, Mild Soapy Odor			
SECTION 4 - FIRE AND EXPLO	OSION HAZ	ZARD DATA			
Flash Point (Method Used) None	Flammable Limits None		LEL N/A		
Extinguisher Media None	Special Fire Fighting Procedures None		UEL N/A		
Unusual Fire and Explosion None Known					
SECTION 5 - REACTIVITY DAT	- Λ				
		Yes-100%			
STABILITY: Unstable No CONDITIONS TO AVOID: None Known	Stable	103-100/0			
Incompatibility (Materials to Avoid) Do not mix with	Strong Oxidizing Age	ents, or Strong Chlorinated	I Agents.		
Hazardous Decomposition or Byproducts None Know	n				
HAZARDOUS POLYMERIZATION: May Occur	No	Will Not Occur	Yes		
CONDITIONS TO AVOID: None Known		<u> </u>			

SECTION 6 - HEALTH HAZARD DATA			
1	Skin? No	Ingestion? Yes	
HEALTH HAZARDS (Acute and Chronic) If Ingested, May cause loose Stools.	Drink Plenty of Water and Consult a Phy	sician. Do not Induce Vomiting.	
N/A			
N/A			
CARCINOGENICITY: NTP? No	IARC No	OSHA Regulated? No	
SIGNS AND SYMPTOMS OF EXPOSURE: None Known, See HEALT	TH HAZARDS		
N/A			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Kno	own		
N/A			
EMERGENCY AND FIRST AID As with any Chemical, Use Caut	tion and Good Safety Measures when in u	ise. Ingestion: Drink Plenty of Water/2-3 Glasses	
and Consult Physician Immediately. Eyes: Flush with Plenty of Water for 15 minu	utes. Skin: Wash Thoroughly with Soap a	nd Water for 15 minutes. Inhalation: Move to fresh ai	
	<u> </u>		
SECTION 7 - PRECAUTIONS FOR SAFE I	HANDLING AND USE	-	
Steps to Be Taken in Case Material is Released or Spilled Spilled Material s	should be washed away promptly with cop	ious amounts of water.	
Product Material instantly Neutralizes with water.			
N/A			
Waste Disposal Method Non Hazardous. No Special Requirements are know	wn to be applicable at this time. Product in	nstantly neutralizes with water.	
Always offer Drums and/or Bulk Containers to be returned to your Supplier or for Recycling to your local Recycler.			
Precautions to Be Taken in Handling and Storing None Known. As with all Chemical Products and Materials, take care as to where and how you store them.			
N/A			
Other Precautions None Known			
N/A			
N/A			
SECTION 8 - Control Measures			
Respiratory Protection (Specify Type) N/A			
Ventilation No Special Ventilation is Known to be Needed.			
Local Exhaust N/A			
Special N/A			
Other N/A			
Mechanical (General) N/A			
Protective Gloves N/A			
Eye Protection As with any Chemical Product or Material, care should be	taken as not to get anything in the Eyes.	Safety Glasses or Goggles are suggested for use	
Other Protective Clothing or Equipment N/A			
N/A			
Work/Hygienic Practices N/A			
N/A			



Material Safety Data Sheet



This MSDS complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.and OSHA FORM 174. OMB No. 1218-0072

Identity (Trade Name As Used On Label)

SECTION 1 - COMPANY/PRODUCT INFORMATION		IDENTITY: BARRACUDA 10K				
Manufacturer's Name: Environmental Manufacturing Solutions, L.L.C.			CAUSE FOR MSDS:	29CFR	Regs	
Address: 7705 Progress Circle			MSDS Number:	N/A		
Melbourne, Florida 32904			Date Prepared:	10/13/08		
Phone Number (For Information):	321-837-0050		Notedank spaces are not pe or no information is available			
Emergency Phone Number (Chemtrec)	800-424-9300					
SECTION 2 - HAZARD INGRED	IENTS/IDEN	TITY INFORMA	ATION			
COMPONENTS - Chemical Name & Component Names (Hazardous Compo	nents 1% or greater. Carcino	ogens 1% or greater	OSHA PEL	ACGIH TLV	OTHER LIMIT RECOMMENDED	
Patented Synthetic Acid			N/A	N/A	N/A	
NON Hazardous, NON-DOT Regulated, NON Nitr	ate Formula					
NOTICE: Under SARA: Section 313 (Toxic Chem	ical Release Repor	rting) 40 CFR 372				
NONE of the ingredients of this product are listed	as Toxic Substanc	ces under TSCA				
			•			
SECTION 3 - PHYSICAL / CHEMI	CAL CHARA	CTERISTICS				
Boiling Point 221 F Specified Gravity (H2O = 1) 1.18						
Vapor Pressure (mm Hg.) N/A Melting Point		Melting Point N/A	N/A			
Vapor Density (Air= N/A Evaporation Ra		Evaporation Rate (Butyl A	ate (Butyl Acetate = 1) N/A			
Solubility In Water 100% Appearance and Odor		Dark Amber in Color, M	fild Odor			
SECTION 4 - FIRE AND EXPLOSI	ON HAZARD	DATA				
Flash Point (Method Used) None	Lei ii ii			LEL N/A		
Extinguisher Media None	Special Fire Fighting Procedures None		UEL N/A			
Unusual Fire and Explosion Hazards None Known						
SECTION 5 - REACTIVITY DATA						
STABILITY: Unstable No	Stable	Yes-100%				
CONDITIONS TO AVOID: None Known						
Incompatibility (Materials to Avoid) Do not mix with	n bases, strong oxidizir	ng agents or strong reduc	ing agents.			
Hazardous Decomposition or Byproducts None Know	'n					
HAZARDOUS POLYMERIZATION: May Occur	No	Will Not Occur	Yes			
CONDITIONS TO AVOID: None Known			-			
N/A		<u> </u>			<u> </u>	

SECTION 6 - HE	ALTH HAZARD DATA		
ROUTE(S) OF ENTRY:	Inhalation? No	Skin? No	Ingestion? Yes
HEALTH HAZARDS (Acute and 6	Chronic) If Ingested, May cause loose Stoo	ols. Drink Plenty of Water and Consult a Ph	ysician. Do not Induce Vomiting.
N/A			
N/A			
CARCINOGENICITY:	NTP? No	IARC Monographs? No	OSHA Regulated?
SIGNS AND SYMPTOMS OF EXI	POSURE: None Known, See HEA	ALTH HAZARDS	
N/A			
MEDICAL CONDITIONS GENE	RALLY AGGRAVATED BY EXPOSURE: None R	Known	
N/A			
EMERGENCY AND FIRST AID P	ROCEDURES: As with any Chemical, Use Ca	aution and Good Safety Measures when in	use. Ingestion: Drink Plenty of Water/2-3 Glasses
and Consult Physician	Immediately. Eyes: Flush with Plenty of Water for 15 m	inutes. Skin: Wash Thoroughly with Soap a	and Water for 15 minutes. Inhalation: Move to fresh ai
SECTION 7 - PR	ECAUTIONS FOR SAFE HANDLING ANI	O USE	
Steps to Be Taken in Case Material	is Released or Spilled Materia	al should be washed away promptly with cop	pious amounts of water.
Product Material insta	ntly Neutralizes with water.		
N/A			
Waste Disposal Method	Non Hazardous. No Special Requirements are kr	nown to be applicable at this time. Product	nstantly neutralizes with water.
Always offer Drums ar	nd/or Bulk Containers to be returned to your Supplier or	for Recycling to your local Recycler.	
Precautions to Be Taken in Handlin	ng and Storing None Known. As with all	I Chemical Products and Materials, take car	re as to where and how you store them.
N/A			
Other Precautions	lone Known		
N/A			
N/A			
SECTION 8 - Co	ntrol Measures		
Respiratory Protection (Specify Type	pe) N/A		
Ventilation	No Special Ventilation is Known to be Needed.		
Local Exhaust N/A			
Special N/A			
Other N/A			
Mechanical(General)	N/A		
Protective Gloves	N/A		
Eye Protection	As with any Chemical Product or Material, care should	be taken as not to get anything in the Eyes.	Safety Glasses or Goggles are suggested for use
Other Protective Clothing or Equip	ment N/A		
N/A			
Work/Hygienic Practices	N/A		
N/A			