

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC@:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL SDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **ROBARB POOL SPECIALTIES TILE BUSTER**

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Supplier**  
**Robarb**  
**1400 Bluegrass Lakes Parkway ,**  
**Alpharetta, GA, 30004**  
**USA**

**Telephone: +17705215999**  
**Telefax: +17705215959**  
**Web: www.poolspacare.com**

REVISION DATE:	05/26/2015
SUPERCEDES:	06/26/2009
MSDS Number:	000000024479
SYNONYMS:	
CHEMICAL FAMILY:	None
DESCRIPTION / USE	None established
FORMULA:	None established

**Manufacturer**  
**Advantis Technologies**  
**1200 Bluegrass Lakes Parkway**  
**Alpharetta, GA 30004**  
**United States of America**

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Corrosive to metals	:	Category 1
Acute toxicity (Inhalation)	:	Category 4
Skin corrosion	:	Category 1A
Serious eye damage	:	Category 1

### GHS Label element

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.

Precautionary statements

:

**Prevention:**  
P234 Keep only in original container.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.

**Storage:**  
P405 Store locked up.  
P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
SULFURIC ACID	7664-93-9	10 - 16
PHOSPHORIC ACID	7664-38-2	5 - 11
Thickener	70750-46-8	2 - 3
SODIUM CHLORIDE	7647-14-5	1 - 3
HYDROCHLORIC ACID	7647-01-0	0 - 3

### SECTION 4. FIRST AID MEASURES

Inhalation:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
Skin Contact:	IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
Ingestion:	IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.
Notes to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage.

### SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or mixture is not classified as pyrophoric., Not explosive

#### Flammable Properties

Fire / Explosion Hazards: 0 - Will not burn  
 Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire Fighting Instructions:	Use water spray to cool unopened containers. In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Hazardous Combustion Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations:	Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.
<u>Spill Mitigation Procedures</u>	
Air Release:	Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of water fog.
Water Release:	This material is soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.
Land Release:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to waterways.
Additional Spill Information :	Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

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## SECTION 7. HANDLING AND STORAGE

Handling:	Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing vapours, mist or gas.
Storage:	Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not freeze.
Incompatible Materials for Storage:	Refer to Section 10, "Incompatible Materials."
Empty Container Warning:	Empty containers retain hazardous residue, dispose of accordingly.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ventilation: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible., A NIOSH approved full-face or half-face respirator in combination with chemical goggles., A NIOSH approved full-face air purifying respirator with acid gas cartridge and N95 filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin Protection : Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Chemical resistant goggles must be worn. Face-shield

Protective Clothing Type: impervious clothing

General Protective Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

**Components with workplace control parameters**

Components (CAS-No.)	Value	Control parameters	Basis (Update)
SULFURIC ACID (7664-93-9)	TWA	0.2 mg/m <sup>3</sup>	ACGIH (02 2014)
PHOSPHORIC ACID (7664-38-2)	TWA	1 mg/m <sup>3</sup>	ACGIH (02 2014)
	STEL	3 mg/m <sup>3</sup>	ACGIH (02 2014)
HYDROCHLORIC ACID (7647-01-0)		2 ppm	ACGIH (02 2014)

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: liquid  
 Form: No data.  
 Color: No data.  
 Odor: No data.  
 Molecular Weight: None established  
 pH : 0.0 - 2.0  
 ()  
 Boiling Point: 212 °F (100 °C)  
 Melting point/freezing point: No data  
 Bulk Density: ()  
 no data available

Vapor Pressure:	no data available
Vapor Density:	> 1
Viscosity:	no data available
Solubility in Water:	soluble in cold water
Partition coefficient n-octanol/water:	No data
Evaporation Rate:	No data
Oxidizing:	None established
Volatiles, % by vol.:	no data available
VOC Content	This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.
HAP Content	Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions.
Conditions to Avoid:	Heat, Avoid freezing.
Chemical Incompatibility:	Oxidizing agents, Amines, Metals, alkalis
Hazardous Decomposition Products:	Hydrogen chloride
Decomposition Temperature:	No data

## SECTION 11. TOXICOLOGICAL INFORMATION

### Component Animal Toxicology

#### Oral LD50 value:

SULFURIC ACID	LD50	= 2,140 mg/kg	Rat
PHOSPHORIC ACID	LD50	= 1,530 mg/kg	Rat
SODIUM CHLORIDE	LD50	= 3,000 mg/kg	Rat
HYDROCHLORIC ACID	LD50	900 mg/kg	Rabbit

### Component Animal Toxicology

#### Dermal LD50 value:

SULFURIC ACID	LD50	> 2,000 mg/kg	Rabbit
PHOSPHORIC ACID	LD50	= 2,740 mg/kg	Rabbit
SODIUM CHLORIDE	LD50	> 10,000 mg/kg	Rabbit
HYDROCHLORIC ACID		No data	

### Component Animal Toxicology

#### Inhalation LC50 value:

SULFURIC ACID	LC50 1 h (aerosol)	=	1.02 mg/l	Rat
PHOSPHORIC ACID	Inhalation LC50 1 h	>	0.850 mg/l	Rat

SODIUM CHLORIDE Inhalation LC50 1 h > 42 mg/l Rat

HYDROCHLORIC ACID Inhalation LC50 1 h 3124 ppm Rat

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be > 5,000 mg/kg Rat

Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg Rabbit

Inhalation LC50 value: LC50 1 h Believed to be approximately 4.07 mg/l Rat

Skin Irritation: Corrosive to skin

Eye Irritation: Corrosive to eyes

Skin Sensitization: Not believed to be sensitising to skin.

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

Subchronic / Chronic Toxicity: Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

SULFURIC ACID

This product did not cause reproductive or developmental effects in a study with laboratory animals.

PHOSPHORIC ACID

This material has been tested and was found not to cause reproductive toxicity in laboratory animals.

Mutagenicity: Not known or reported to be mutagenic.

SULFURIC ACID

This product has been tested for mutagenicity. Tests revealed both positive and negative results. Based on the weight of evidence, we judge this product NOT to be a mutagenic hazard.

PHOSPHORIC ACID

This product was determined to be non-mutagenic in the Ames assay.

HYDROCHLORIC ACID

This chemical has been shown to be non-mutagenic based on a battery of assays.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic (Group I carcinogen). The following data is available for sulfuric acid:

SULFURIC ACID

This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA. IARC evaluated several epidemiology studies where workers from a variety of industries had been exposed to a mixture of strong inorganic acid mists. IARC has concluded that there is sufficient evidence that occupational exposure to a

PHOSPHORIC ACID

mixture of strong inorganic-acid mists containing sulfuric acid is carcinogenic to humans (Group I carcinogen). Because cancer has not been observed in animals when they are exposed only to sulfuric acid mists, exposure to sulfuric acid by itself was not determined to be carcinogenic to humans.

This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

HYDROCHLORIC ACID

The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans.

## SECTION 12. ECOLOGICAL INFORMATION

Overview: Slightly toxic to fish and other aquatic organisms.

### Ecological Toxicity Values - Product:

- EC50 Believed to be approximately 23 mg/l (calculated)

### Ecological Toxicity Values for: SULFURIC ACID

- |                                 |                                 |            |
|---------------------------------|---------------------------------|------------|
| Mosquito fish                   | - (nominal, static). 96 h LC50  | 42 mg/l    |
| Bluegill sunfish                | - 96 h LC50                     | 10.5 mg/l  |
| Common shrimp (Crangon crangon) | - (nominal, renewal). 48 h LC50 | 70-80 mg/l |
| Daphnia magna,                  | - 24 h EC50                     | 29 mg/l    |

### Ecological Toxicity Values for: PHOSPHORIC ACID

- |               |             |          |
|---------------|-------------|----------|
| Mosquito fish | - 96 h LC50 | 138 mg/l |
|---------------|-------------|----------|

### Ecological Toxicity Values for: HYDROCHLORIC ACID

- |                                      |                                  |            |
|--------------------------------------|----------------------------------|------------|
| Mosquito fish                        | - 96 h LC50 =                    | 282 mg/l   |
| Bluegill                             | - 48 h LC50 =                    | 3.6 mg/l   |
| Pimephales promelas (fathead minnow) | - 96 h LC50 =                    | 21.9 mg/l  |
| Common shrimp (Crangon crangon)      | - (nominal, renewal). 48 h LC50= | 260 mg/l   |
| Daphnia magna,                       | - 48 h EC50=                     | 0.492 mg/l |



## SECTION 13. DISPOSAL CONSIDERATIONS

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.**

Waste Disposal Summary : If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D002. As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

### DOT

UN number : 1760  
 Description of the goods : Corrosive liquids, n.o.s.  
 : (Sulphuric acid, phosphoric acid)  
 Class : 8  
 Packing group : II  
 Labels : 8  
 Emergency Response : 154  
 Guidebook Number

### TDG

UN number : 1760  
 Description of the goods : CORROSIVE LIQUID, N.O.S.  
 : (Sulphuric acid, phosphoric acid)  
 Class : 8  
 Packing group : II  
 Labels : 8

### IATA

UN number : 1760  
 Description of the goods : Corrosive liquid, n.o.s.  
 : (Sulphuric acid, phosphoric acid)  
 Class : 8  
 Packing group : II  
 Labels : 8  
 Packing instruction (cargo aircraft) : 855  
 Packing instruction (passenger aircraft) : 851  
 Packing instruction (passenger aircraft) : Y840

**IMDG-CODE**

UN number : 1760  
 Description of the goods : CORROSIVE LIQUID, N.O.S.  
 (Sulphuric acid, phosphoric acid)  
 Class : 8  
 Packing group : II  
 Labels : 8  
 EmS Number 1 : F-A  
 EmS Number 2 : S-B

**SECTION 15. REGULATORY INFORMATION**

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulphuric acid	7664-93-9	1000	

**SARA 302**

The following components are subject to reporting levels established by SARA Title III, Section 302:

Sulphuric acid 7664-93-9  
 hydrochloric acid 7647-01-0

**SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Sulphuric acid 7664-93-9  
 hydrochloric acid 7647-01-0

**Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

hydrochloric acid 7647-01-0 1.85 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

Sulphuric acid 7664-93-9 13.95 %  
 hydrochloric acid 7647-01-0 1.85 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Sulphuric acid	7664-93-9	13.95 %
phosphoric acid	7664-38-2	8.5 %
hydrochloric acid	7647-01-0	1.85 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Sulphuric acid	7664-93-9	13.95 %
phosphoric acid	7664-38-2	8.5 %
hydrochloric acid	7647-01-0	1.85 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations**

**Massachusetts Right To Know**

Sulphuric acid	7664-93-9
phosphoric acid	7664-38-2
hydrochloric acid	7647-01-0

**Pennsylvania Right To Know**

Sulphuric acid	7664-93-9
phosphoric acid	7664-38-2
hydrochloric acid	7647-01-0

**New Jersey Right To Know**

Sulphuric acid	7664-93-9
phosphoric acid	7664-38-2
hydrochloric acid	7647-01-0

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

- TSCA : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.
- : dye Pylaklor Acid Red LX-6515
- : Rewoteric AM

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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## **SECTION 16. OTHER INFORMATION**

SECTIONS REVISED: First formulated version in SAP.  
Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .